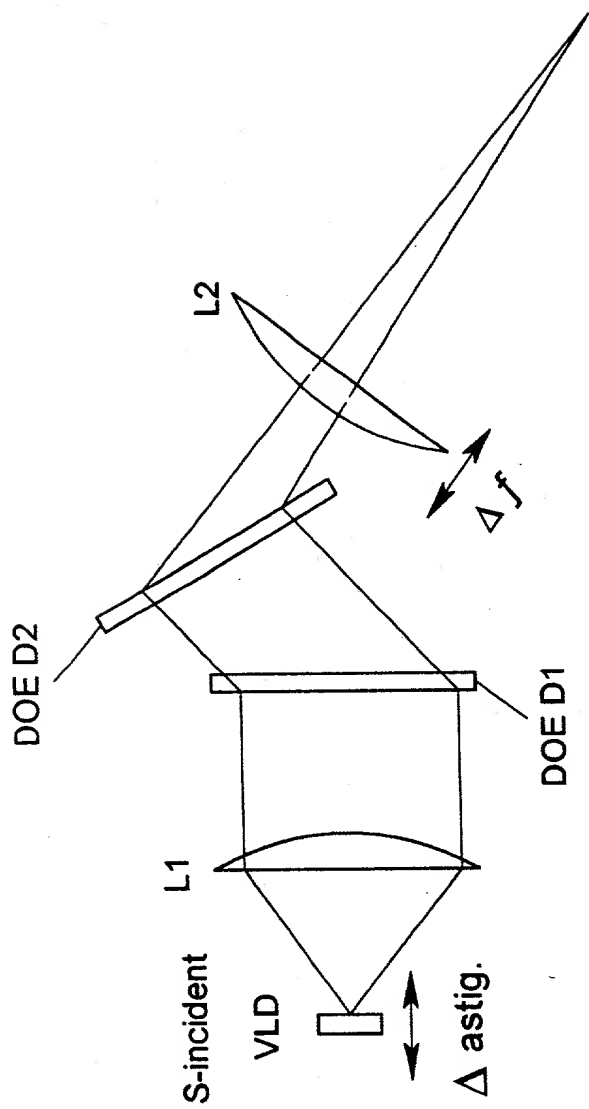


FIG. 2A

FIG. 2B is a schematic diagram of an optical system 200. The system 200 includes a light source 210, a lens L1, a lens L2, a DOE D1, a DOE D2, a VLD, and a detector 220. The light source 210 emits light 215 that passes through lens L1 and is focused onto the VLD. The VLD emits light 225 that passes through lens L2 and is focused onto the detector 220. The DOE D1 and DOE D2 are positioned to receive light from the light source 210 and the VLD, respectively. The distance between the VLD and the detector 220 is labeled $\Delta \text{astig.}$ and the distance between the DOE D1 and the DOE D2 is labeled Δf .

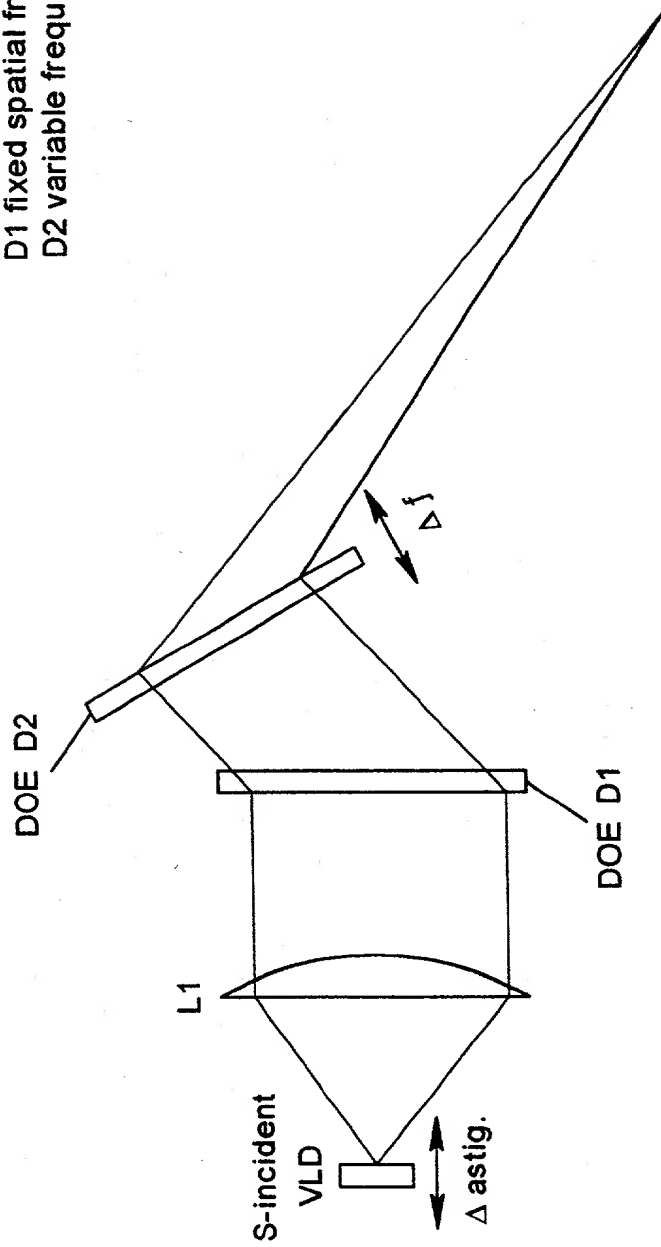
D1 and D2 fixed spatial frequency



Embodiment 2

FIG. 2B

D1 fixed spatial frequency
D2 variable frequency



Embodiment 3

FIG. 2C

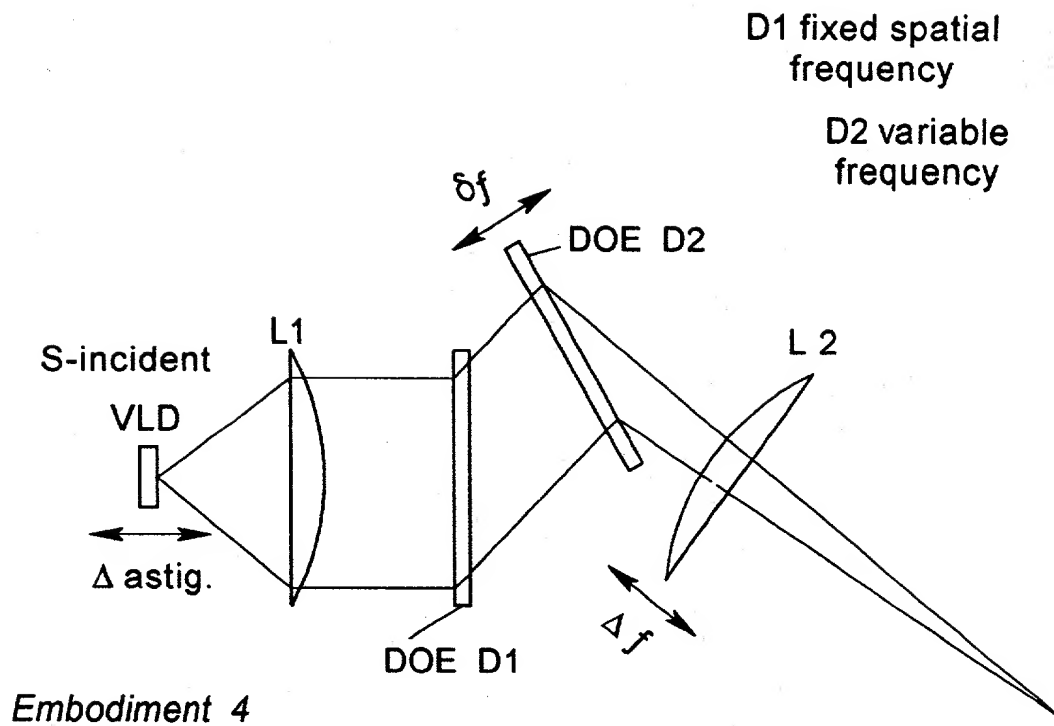


FIG. 2D

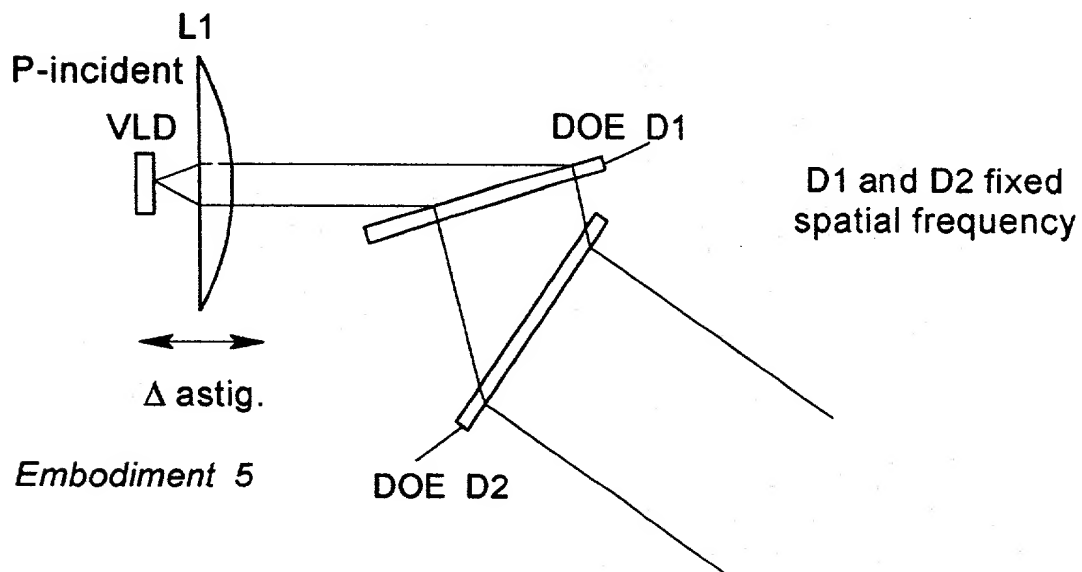


FIG. 2E

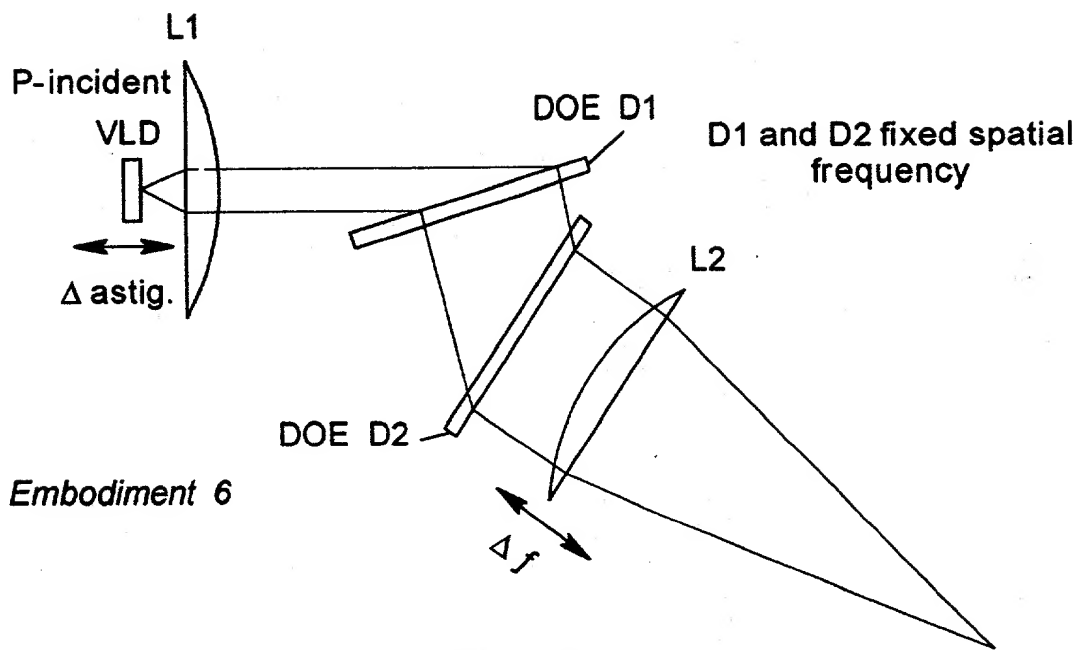


FIG. 2F

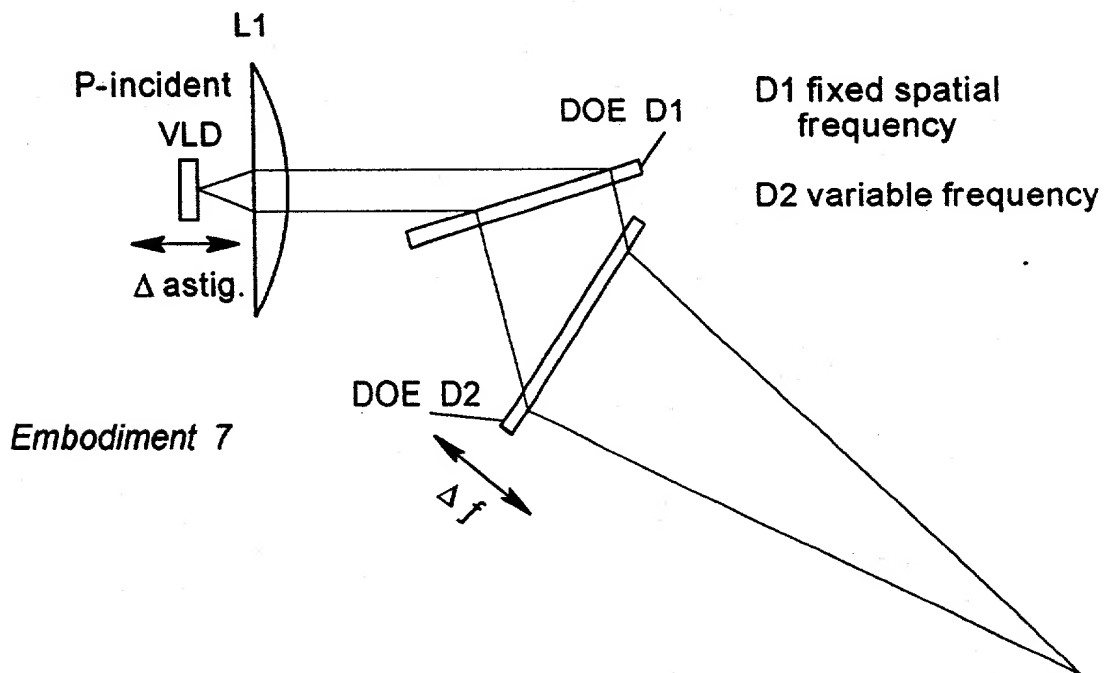


FIG. 2G

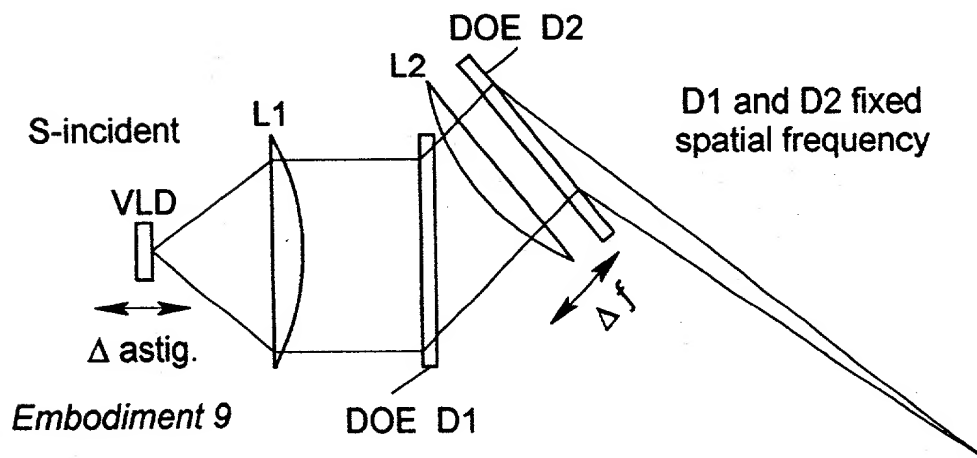
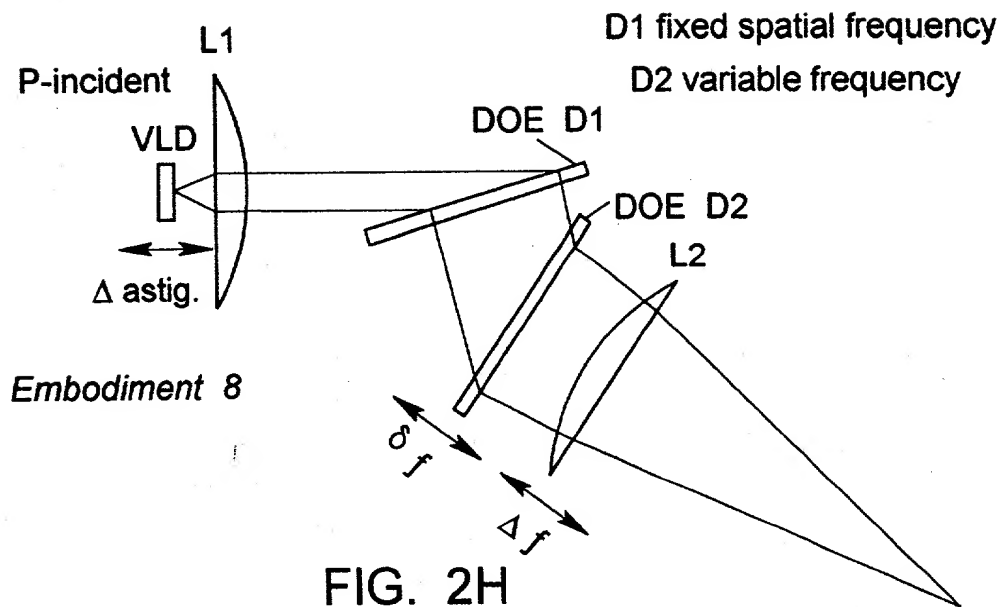
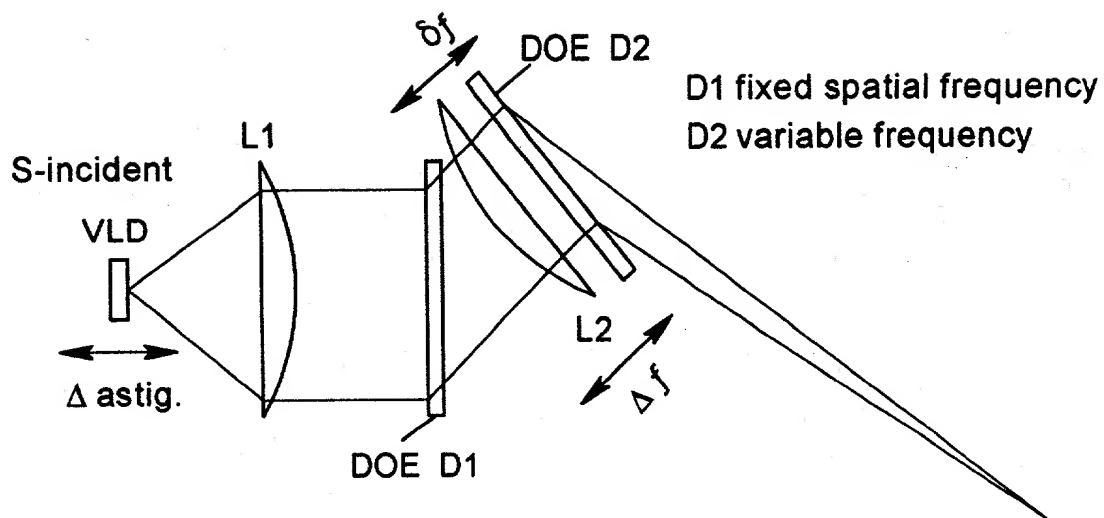
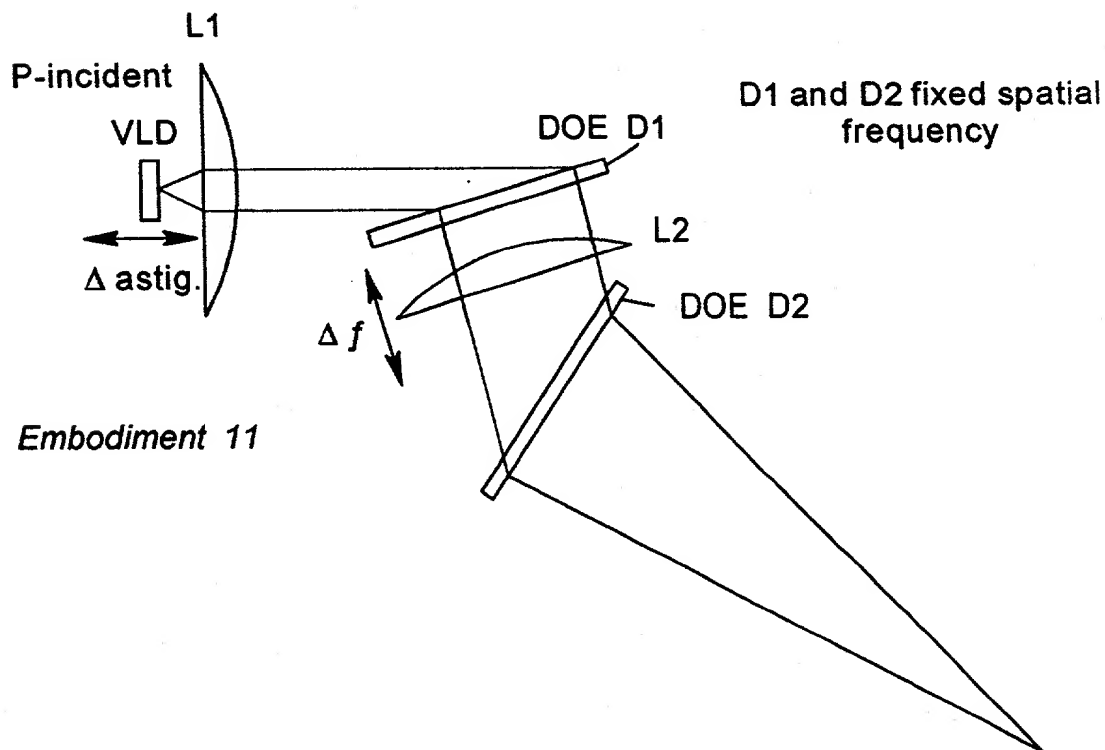


FIG. 2I



Embodiment 10

FIG. 2J



Embodiment 11

FIG. 2K

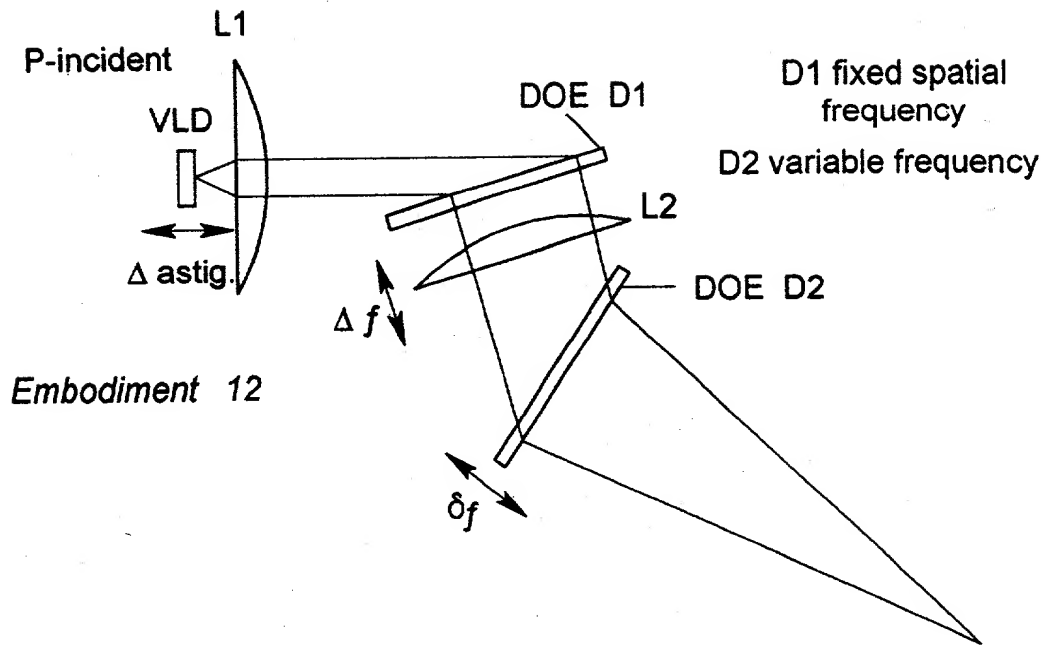


FIG. 2L

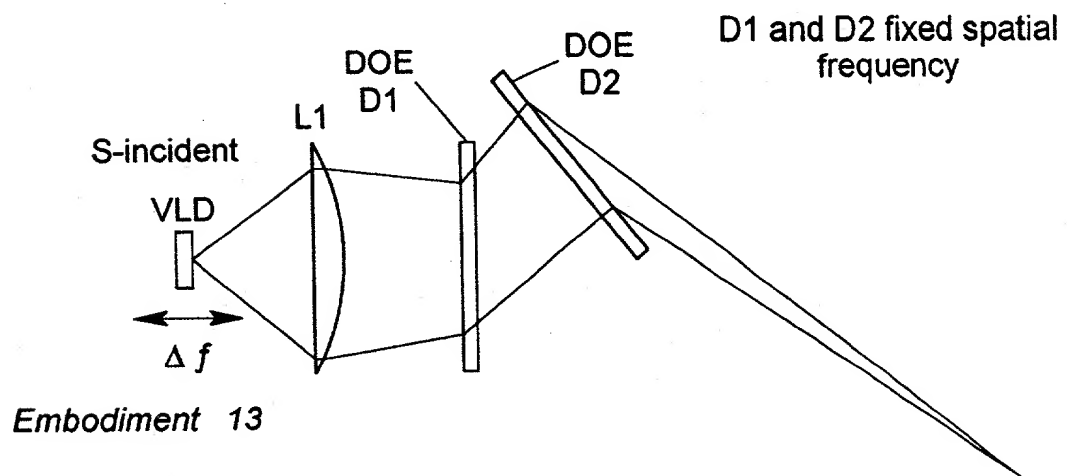


FIG. 2M

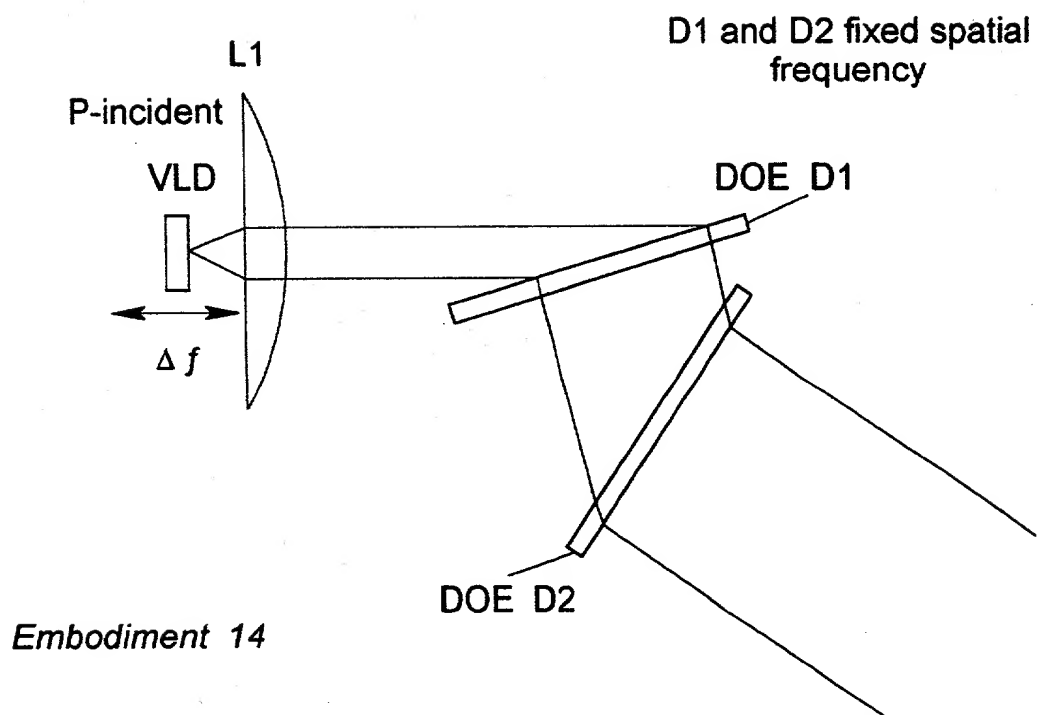


FIG. 2N

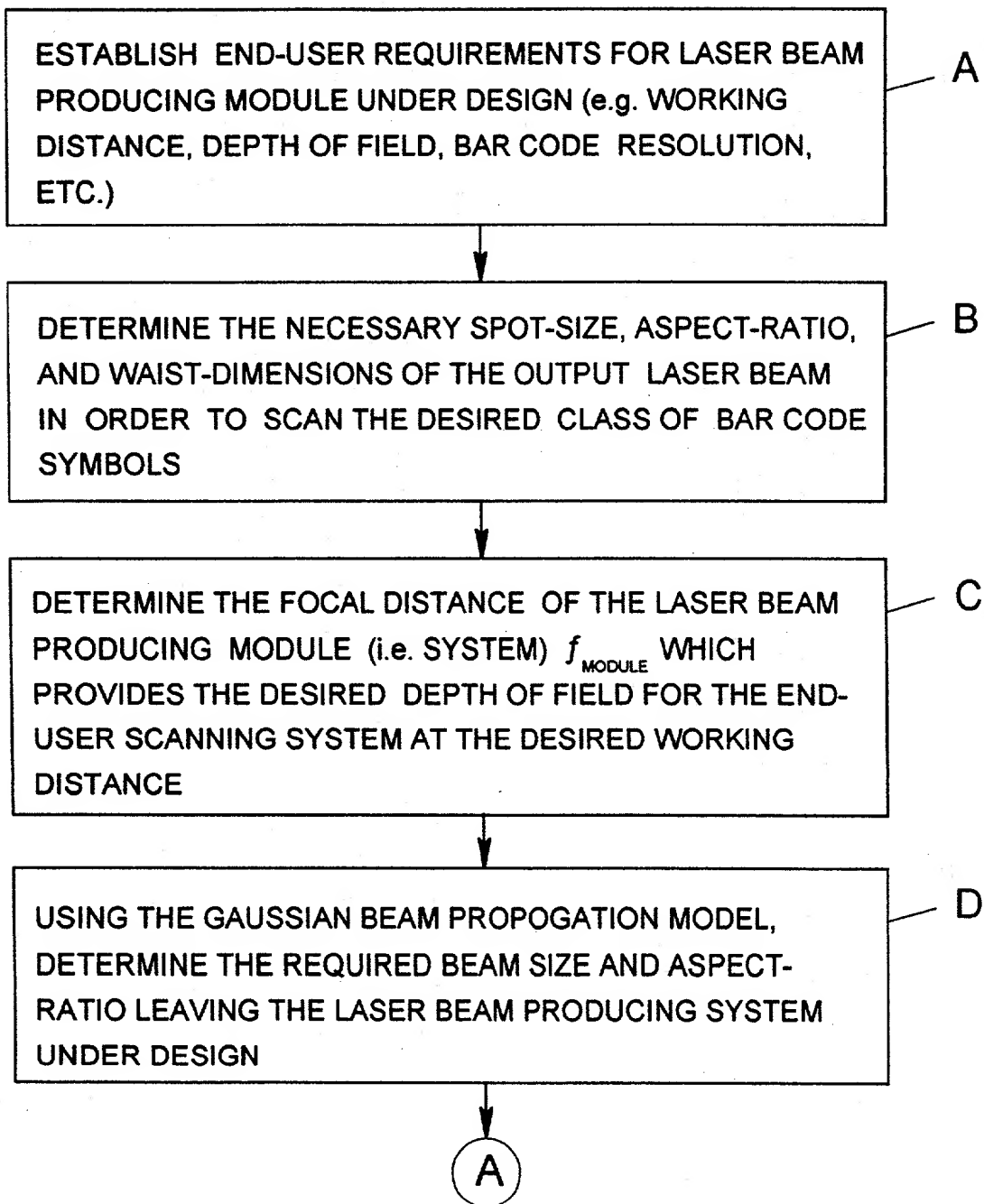


FIG. 3A1

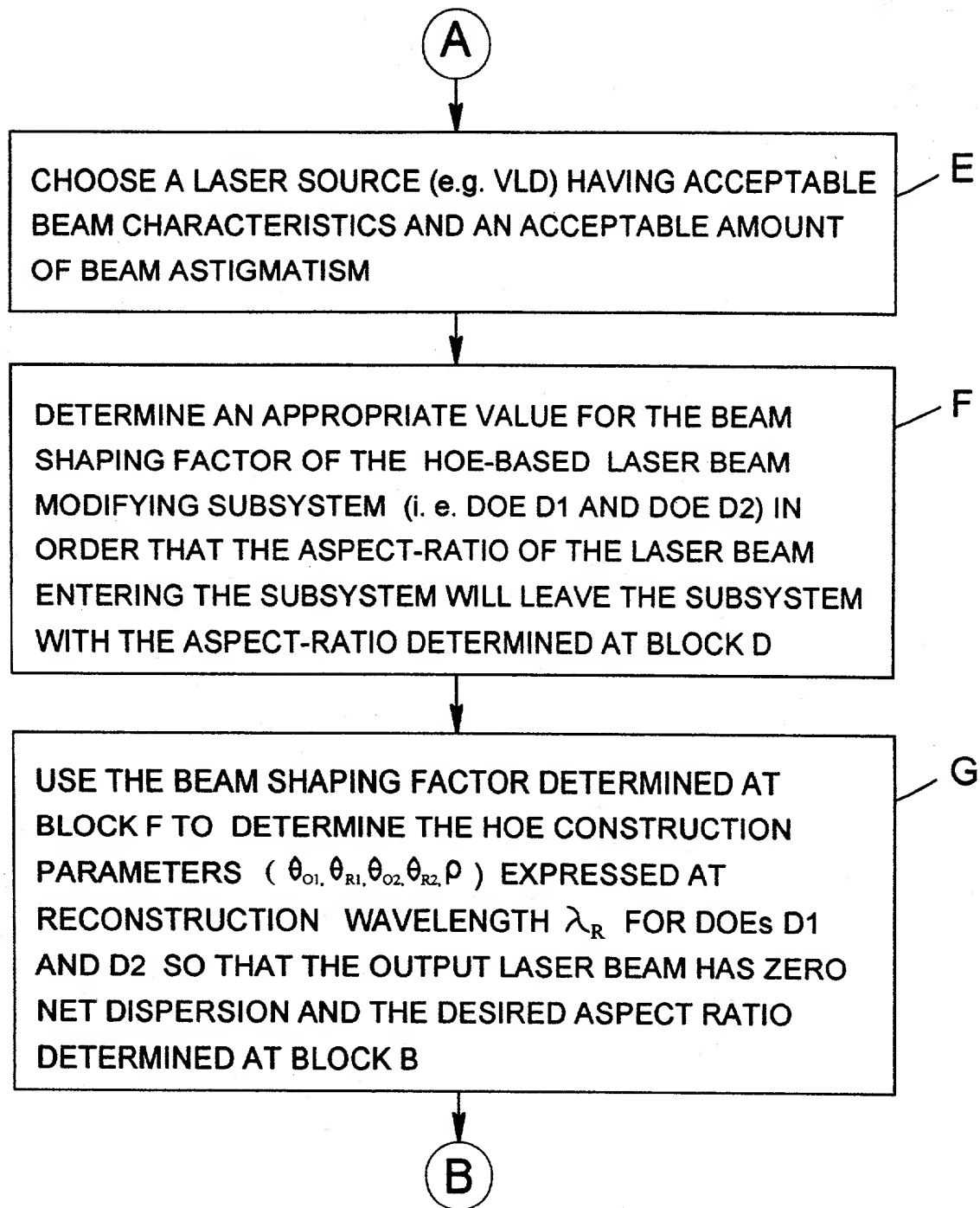


FIG. 3A2

B

DETERMINE THE DISTANCE FROM THE VLD TO FIRST LENS ELEMENT L1, WHICH PRODUCES AN OUTPUT LASER BEAM HAVING THE DESIRED BEAM SIZE DETERMINED AT BLOCK D

H

DETERMINE THE FOCAL LENGTH OF LENS ELEMENT L1 THAT PRODUCES AN OUTPUT LASER BEAM HAVING THE DESIRED FOCAL LENGTH DETERMINED AT BLOCK C

I

FIG. 3A3

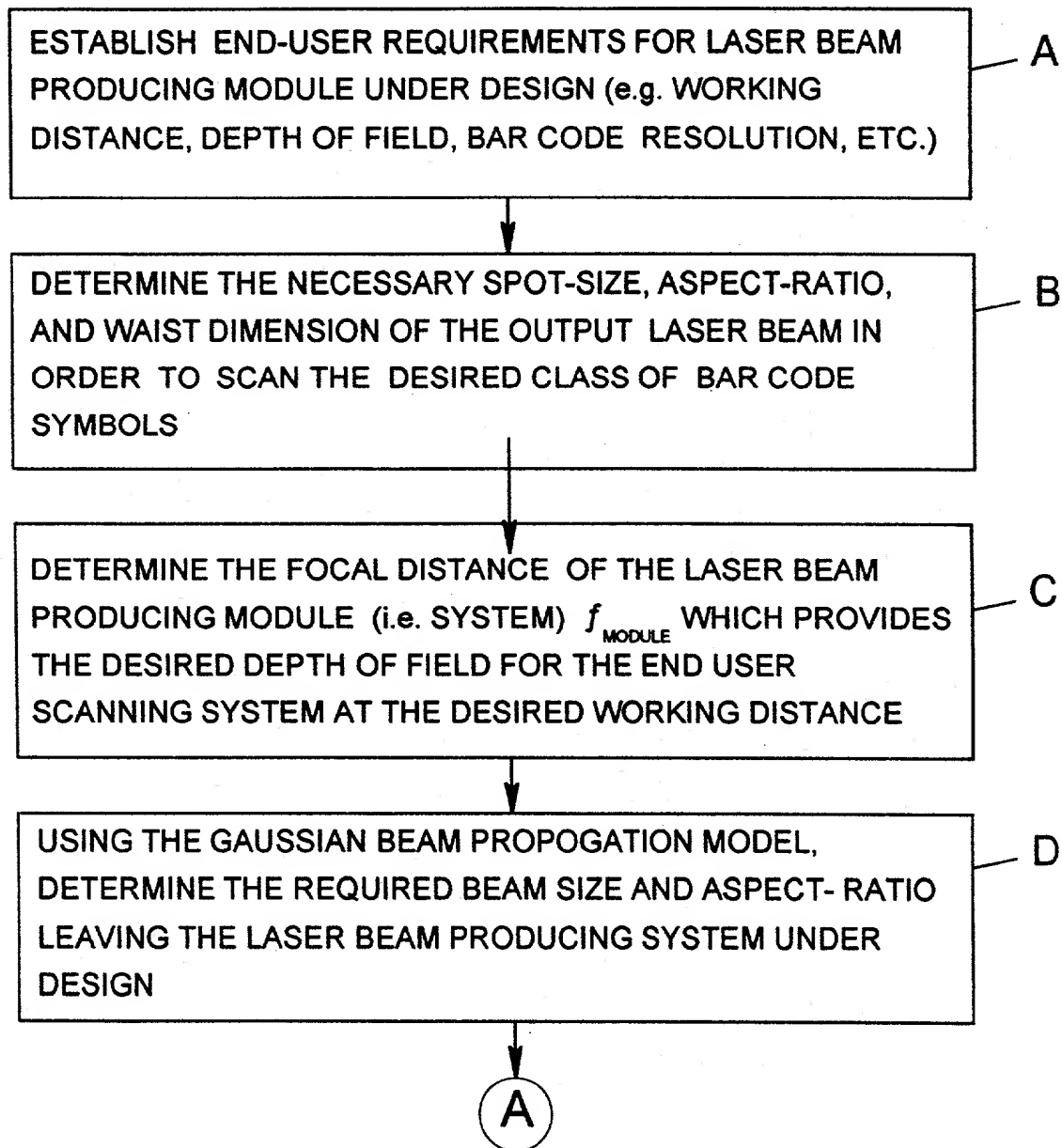


FIG. 3B1

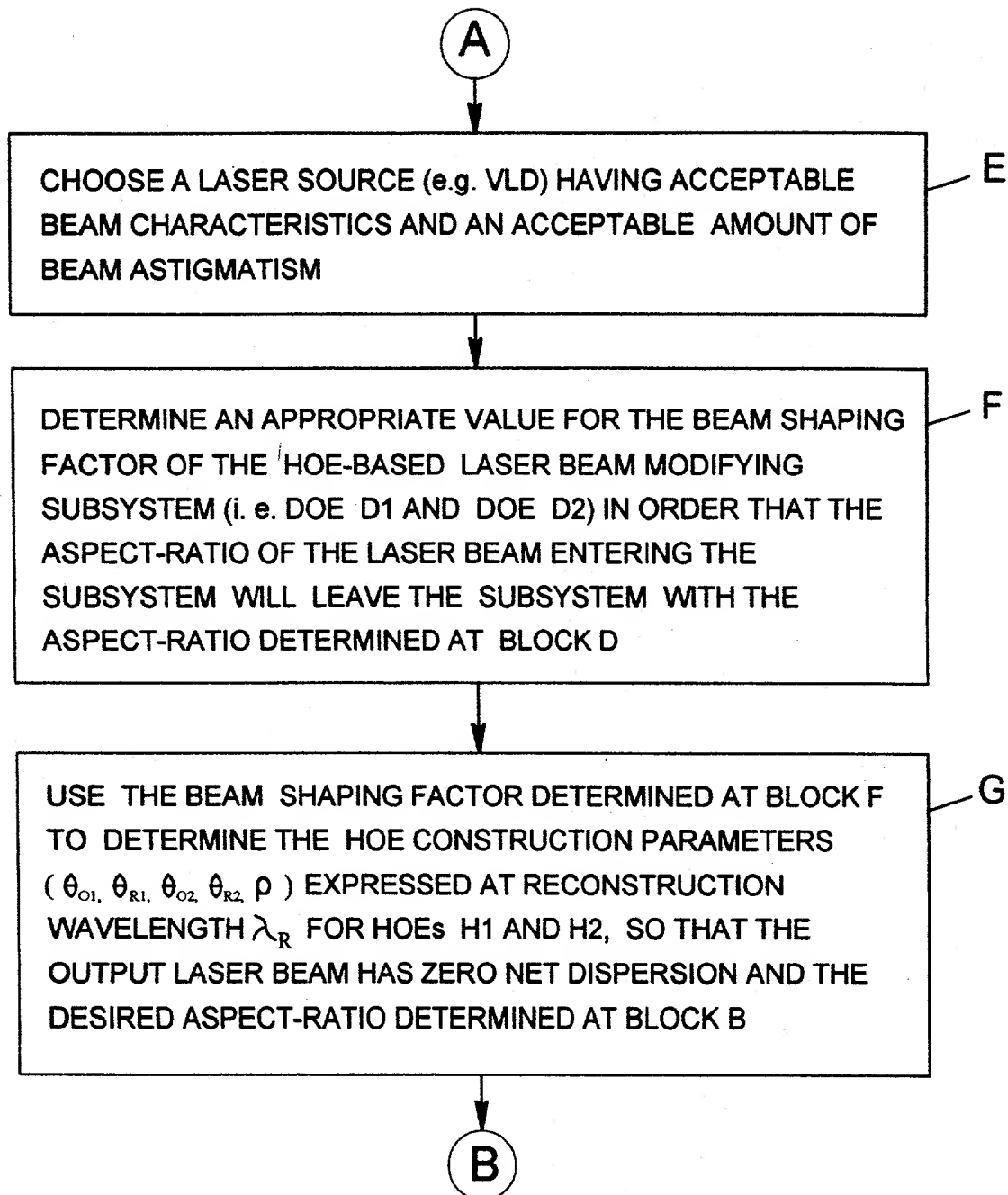


FIG. 3B2

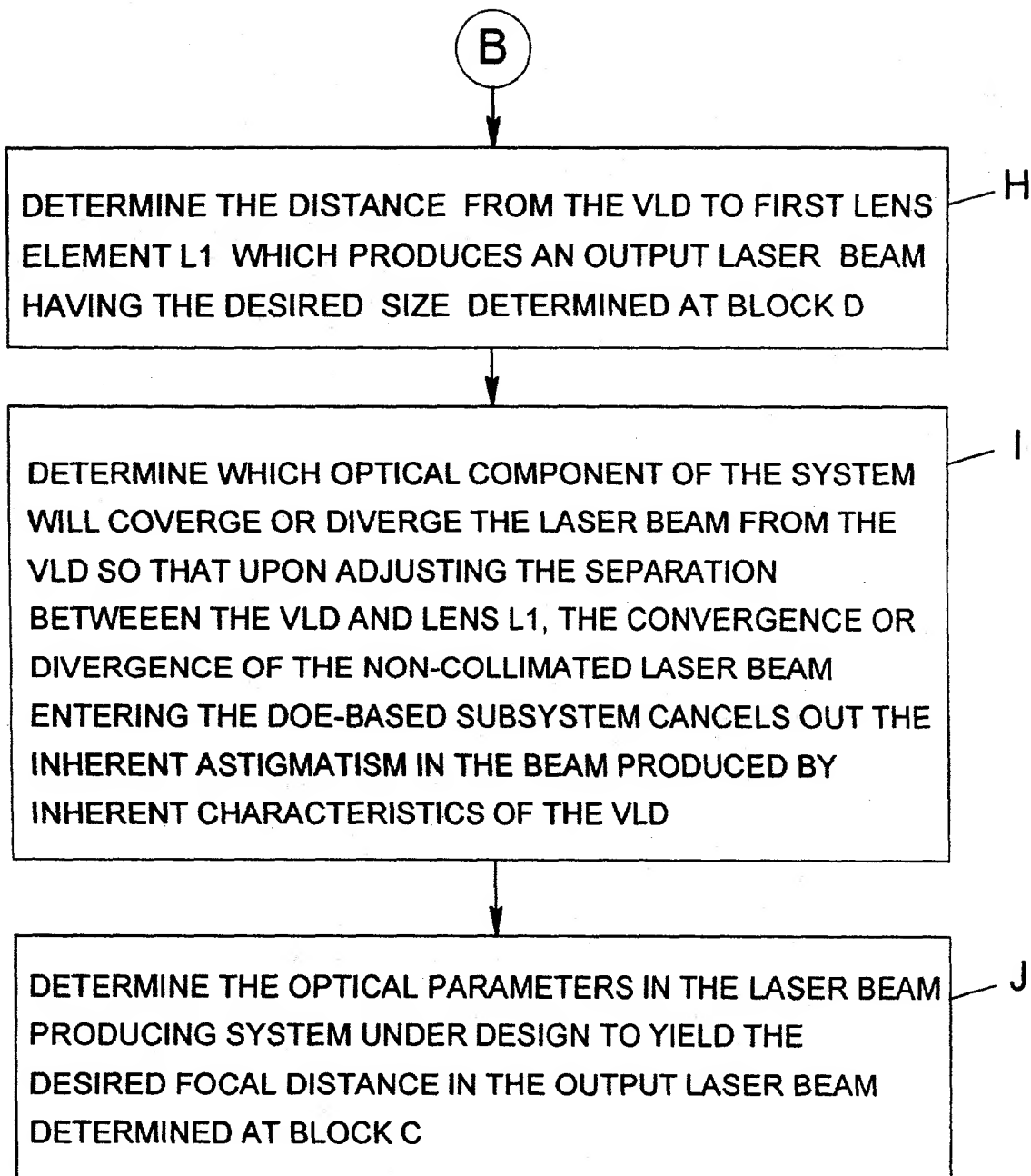


FIG. 3B3

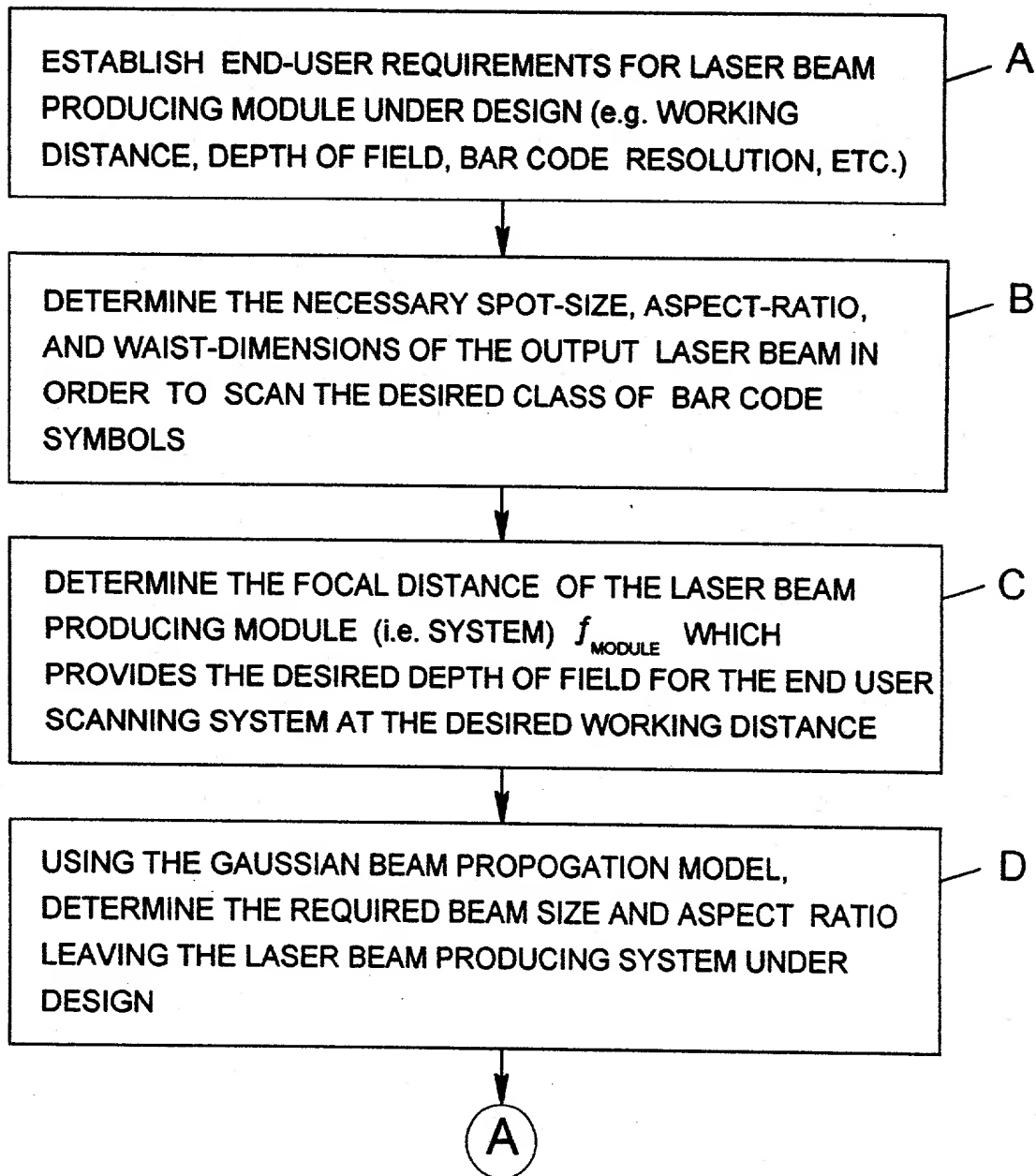


FIG. 3C1

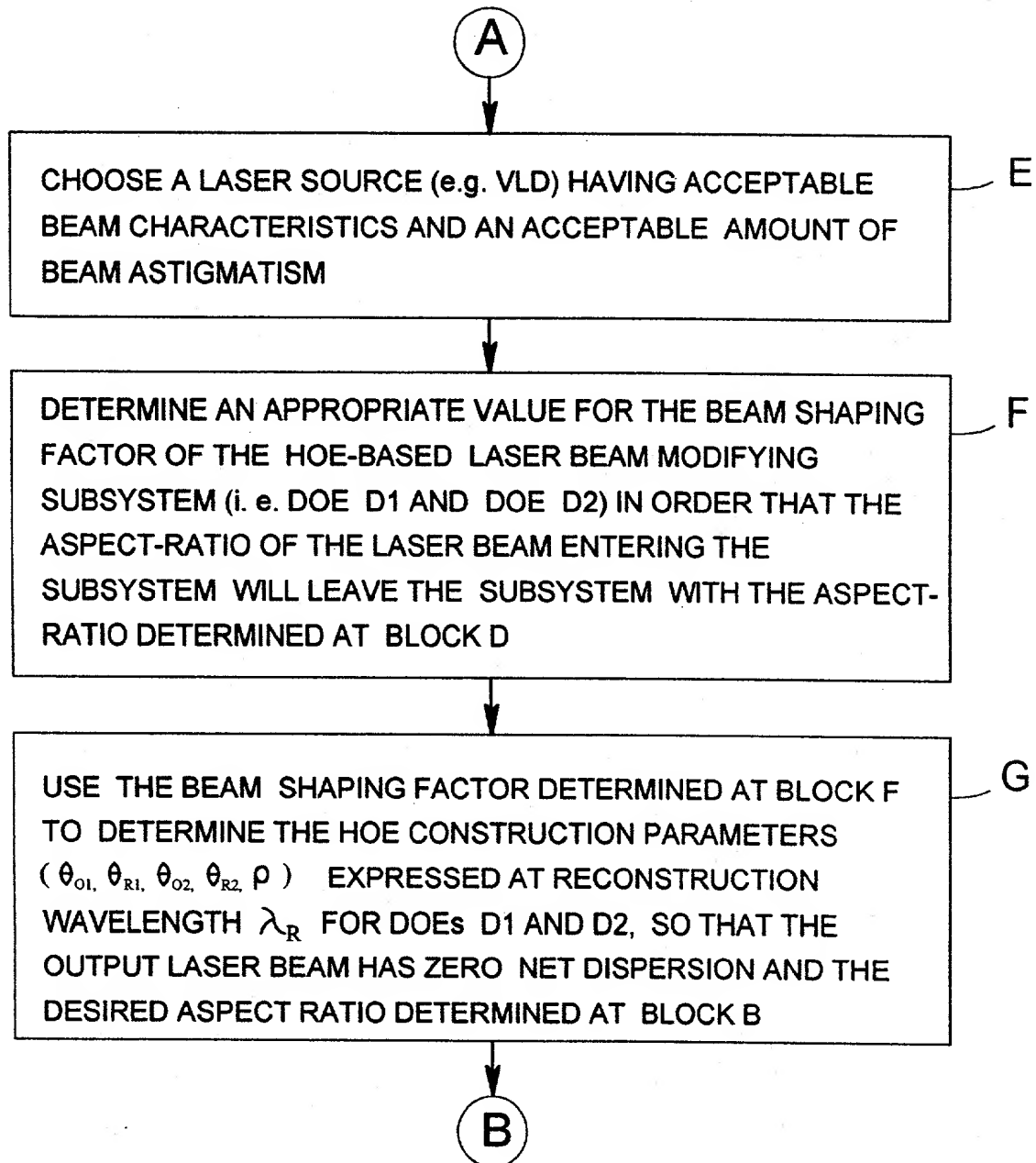


FIG. 3C2

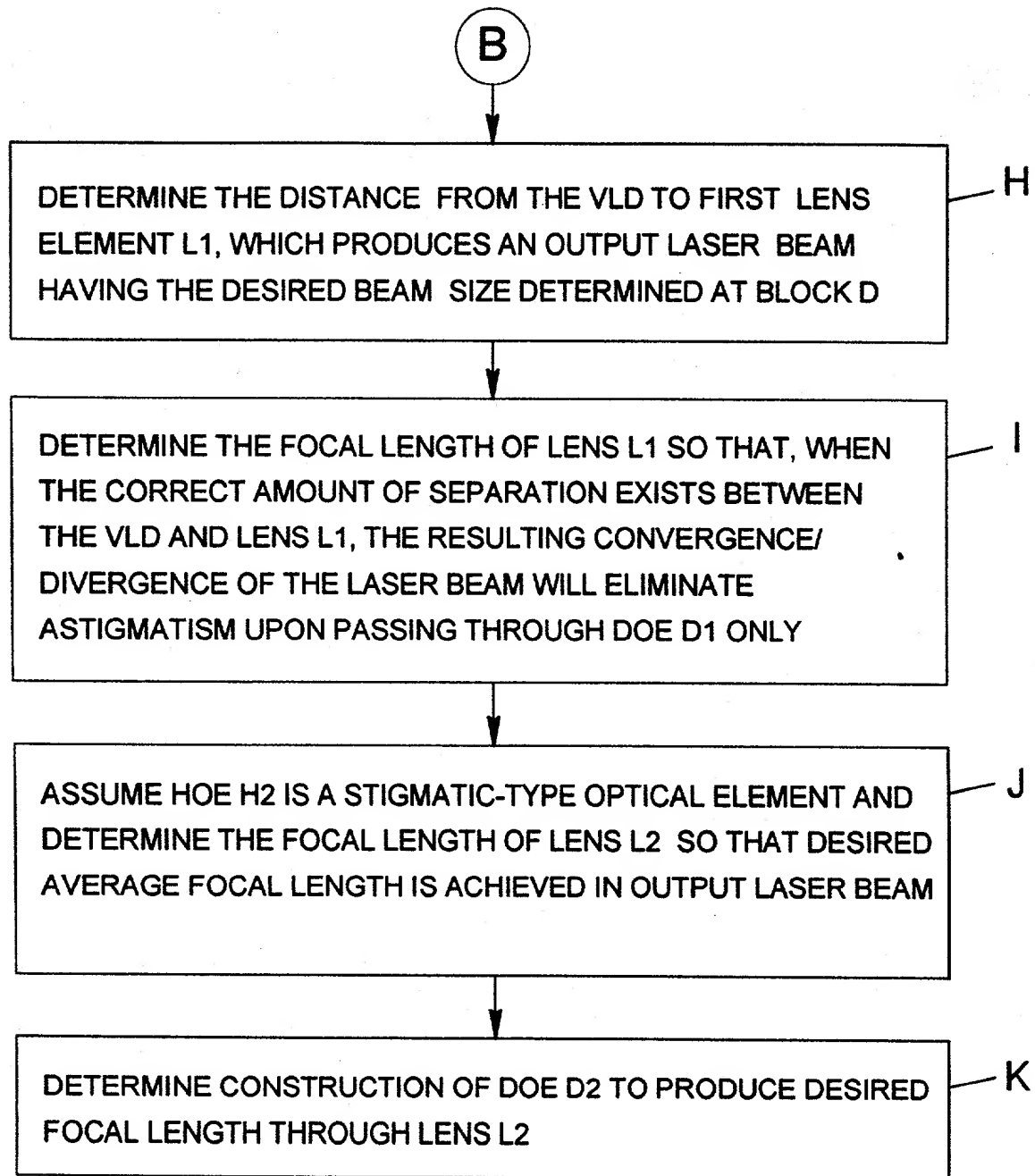


FIG. 3C3

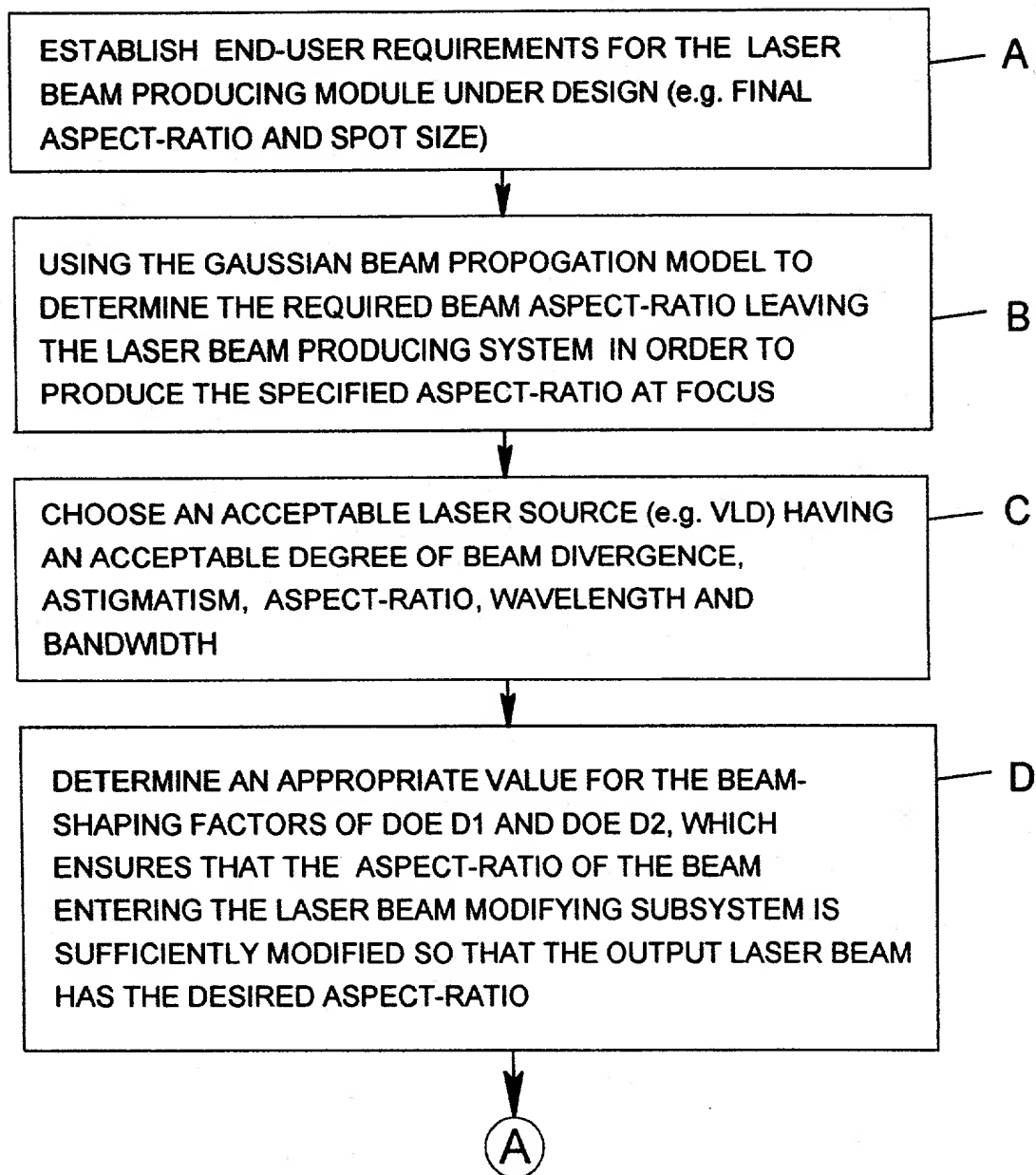


FIG. 3D1

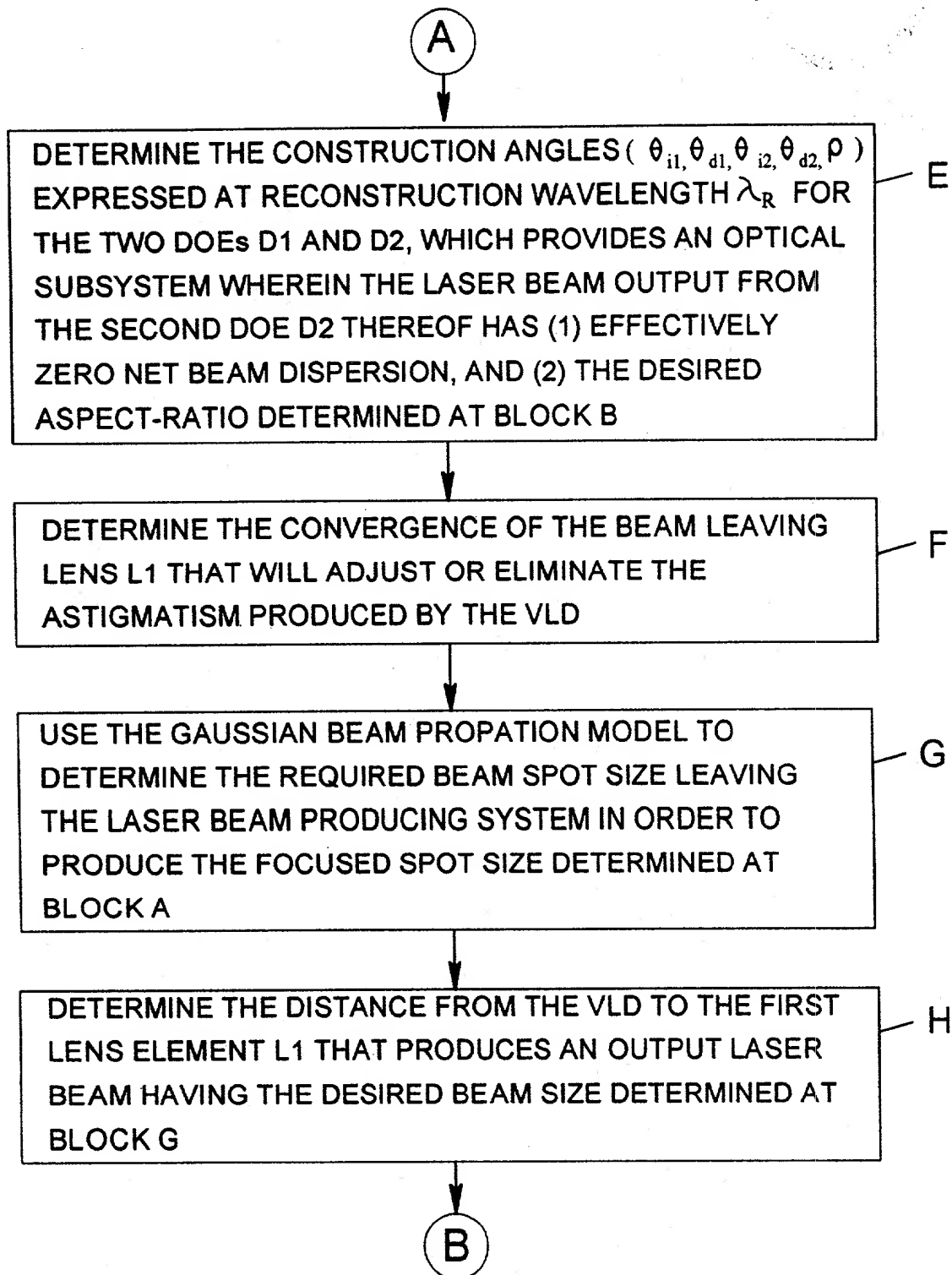


FIG. 3D2

B



**DETERMINE THE FOCAL LENGTH OF THE LENS ELEMENT L1
THAT PRODUCES A BEAM WITH THE CONVERGENCE
DETERMINED IN BLOCK F**

FIG. 3D3

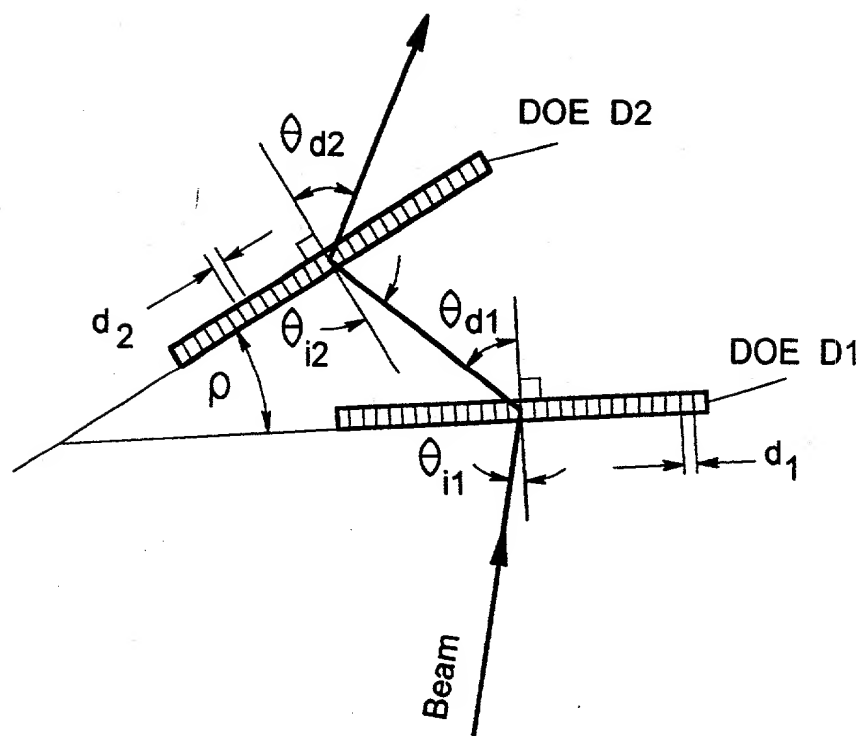


FIG. 3E

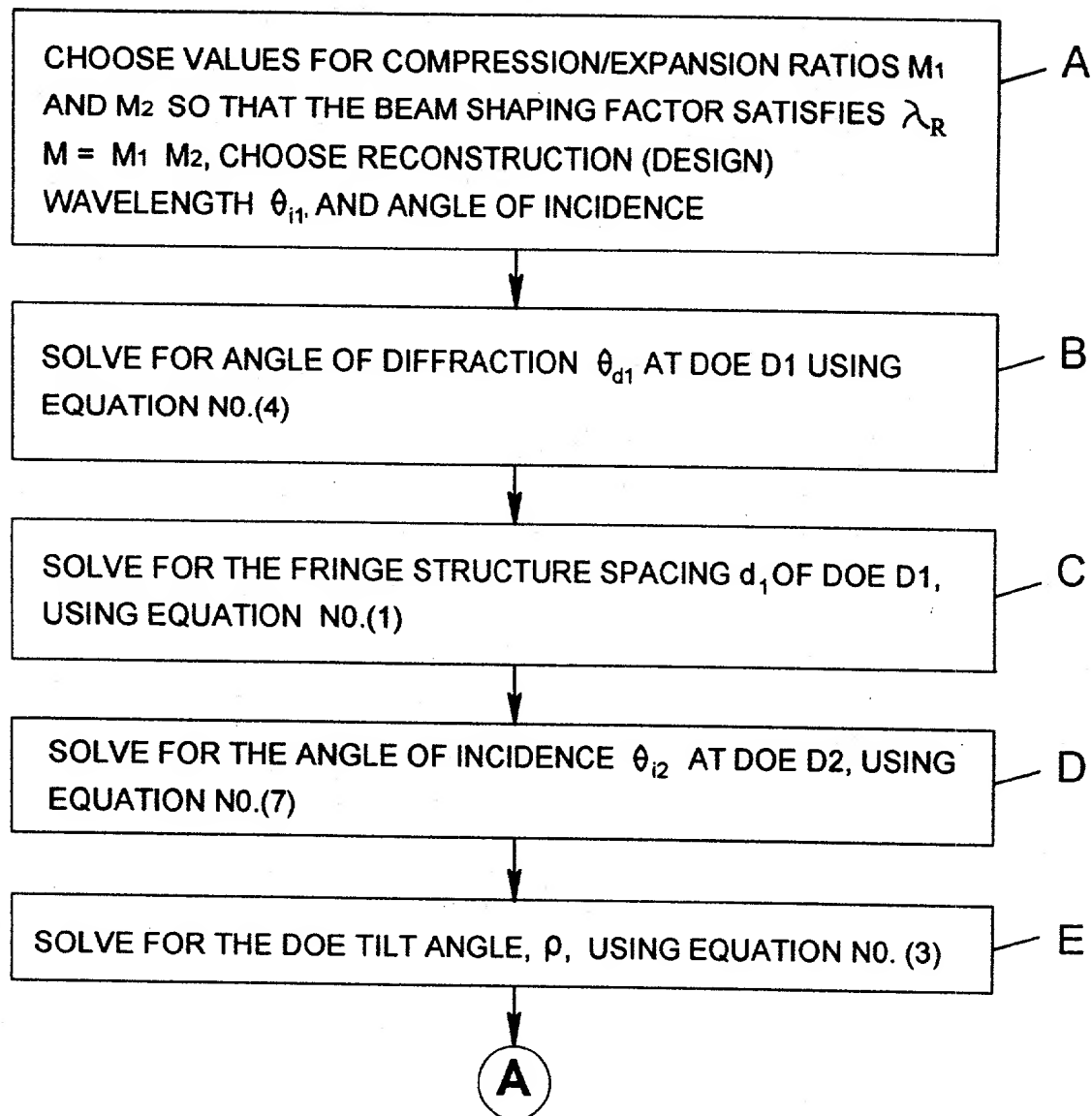


FIG. 3F1

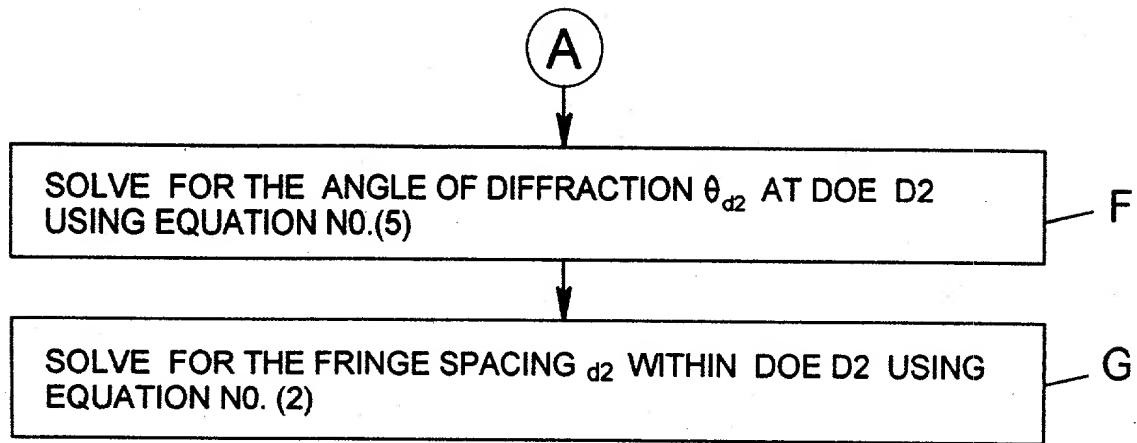


FIG. 3F2

CONVERT THE DESIGN PARAMETERS $\theta_{i1}, \theta_{d1}, \theta_{i2}, \theta_{d2}$, (AND f_2) EXPRESSED AT THE RECONSTRUCTION WAVELENGTH λ_R , INTO CONSTRUCTION PARAMETERS EXPRESSED AT THE CONSTRUCTION WAVELENGTH λ_c , NAMELY: θ_{O1}, θ_{R1} , FOR HOE H1; AND θ_{O2}, θ_{R2} , FOR HOE H2

A

IN THE CASE OF VARIABLE SPATIAL FREQUENCY DOES, USE COMPUTER-RAY TRACING TO DETERMINE THE DISTANCES OF THE OBJECT AND REFERENCE (BEAM) SOURCES RELATIVE TO THE HOLOGRAPHIC RECORDING MEDIUM (AS WELL AS THE DISTANCES OF ANY ABERRATION-CORRECTING LENSES THEREFROM) EMPLOYED DURING THE HOLOGRAPHIC RECORDING PROCESS

B

FIG. 4A

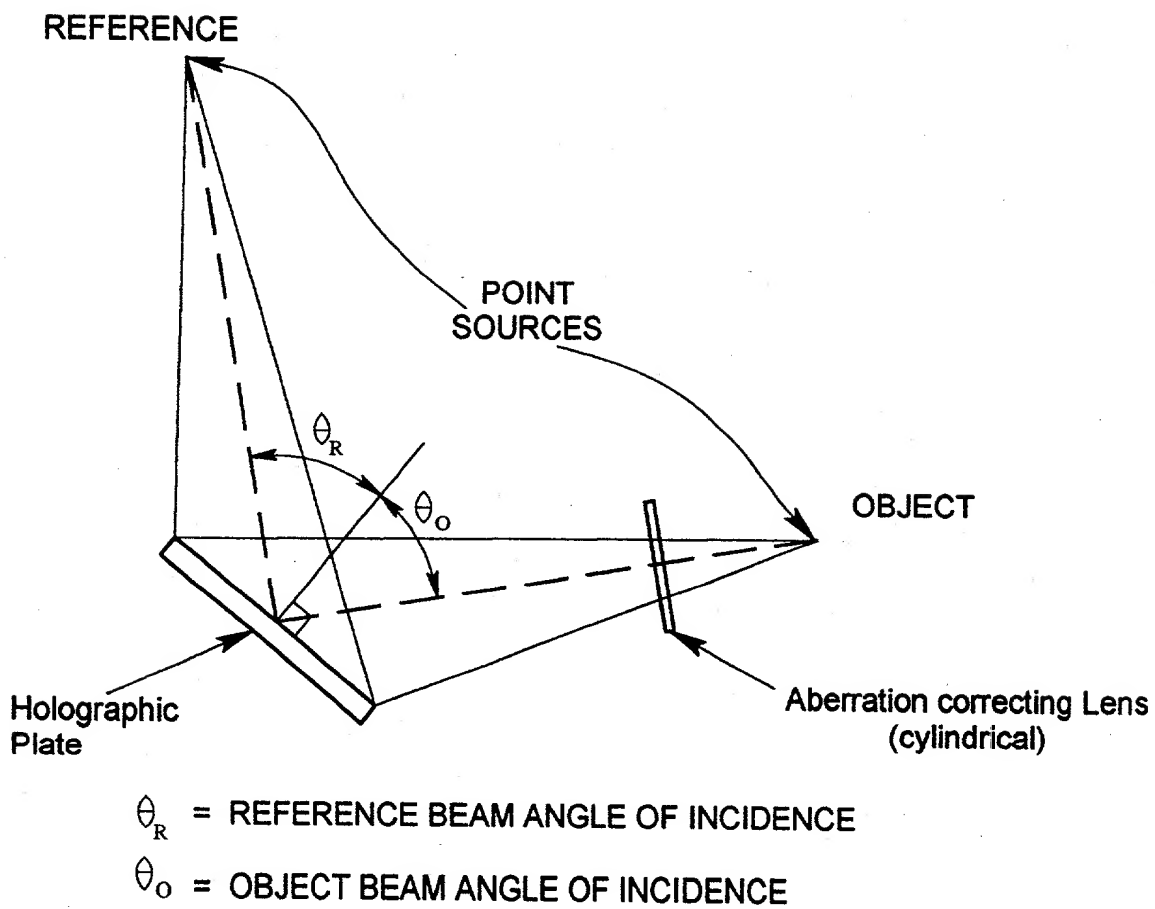


FIG. 4B

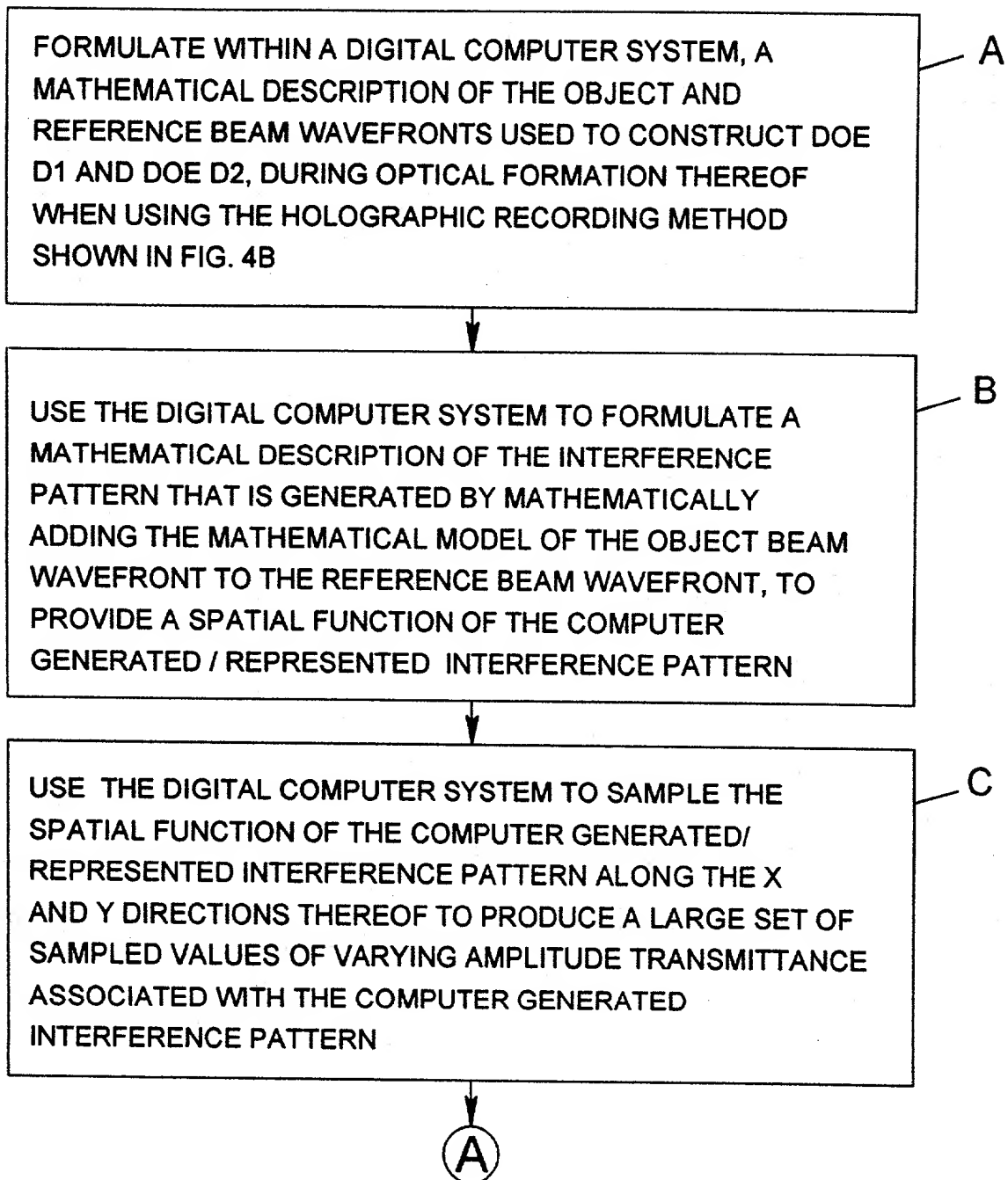


FIG. 4C1

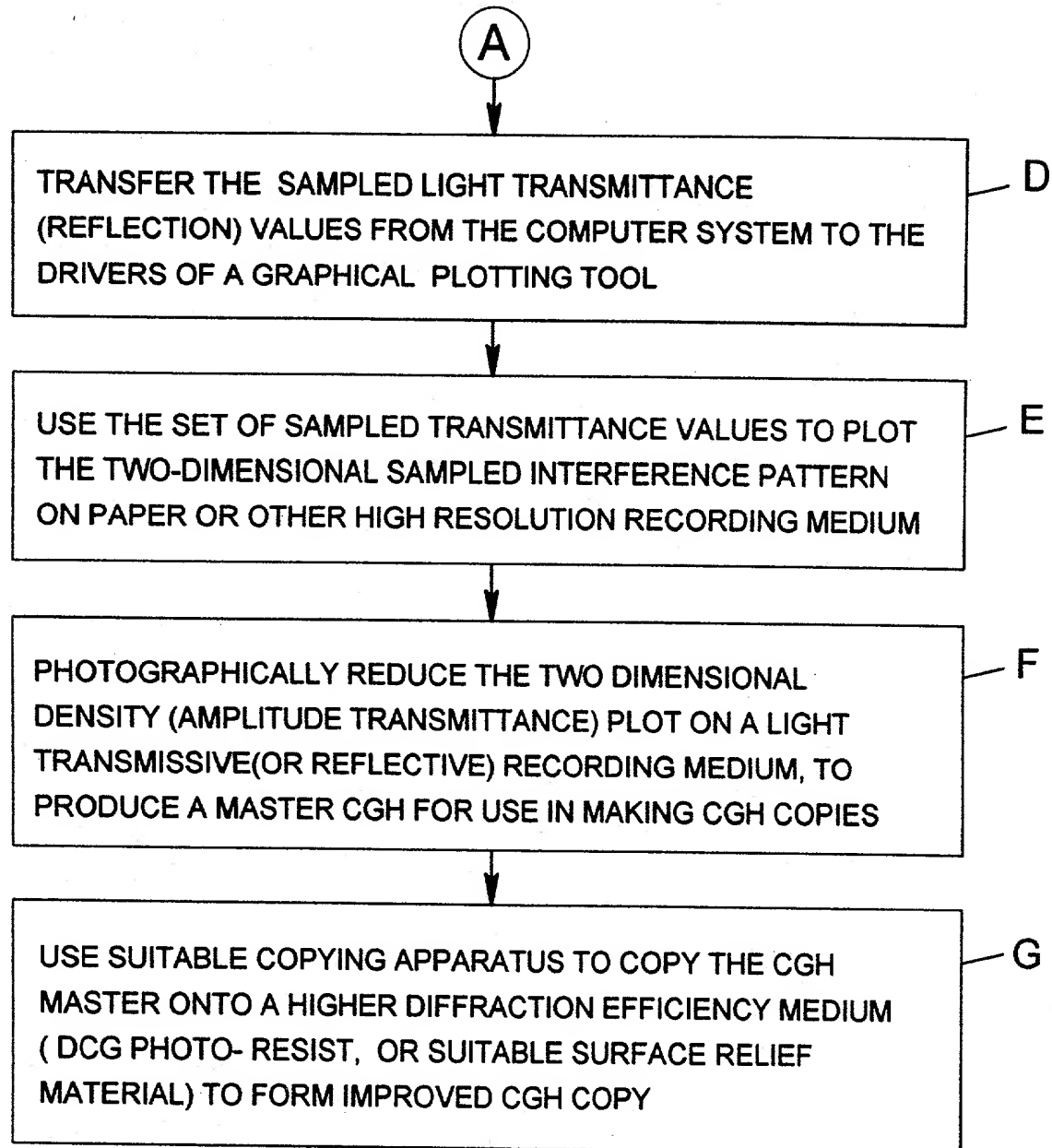


FIG. 4C2

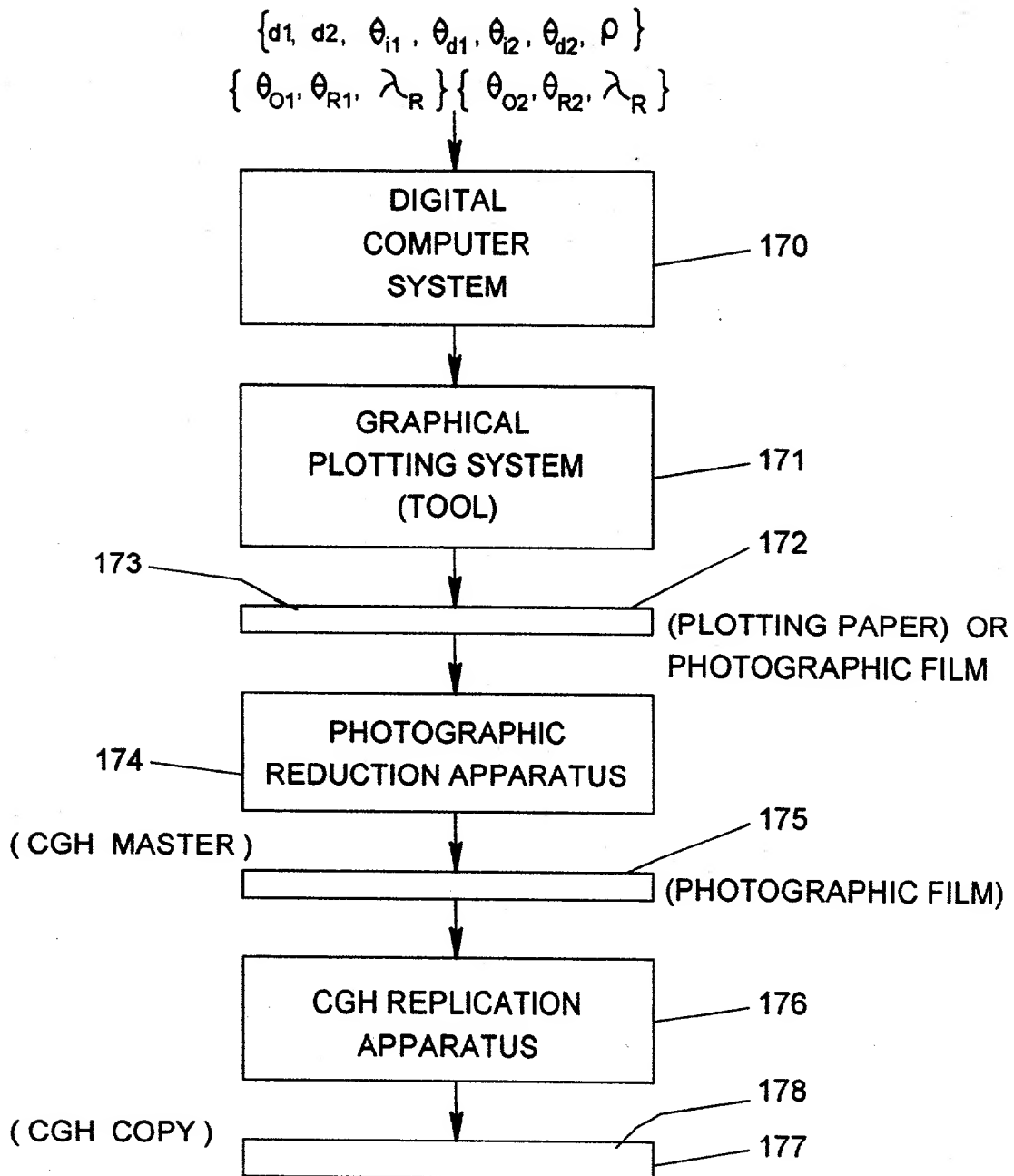


FIG. 4D

Beam Dispersion Analysis

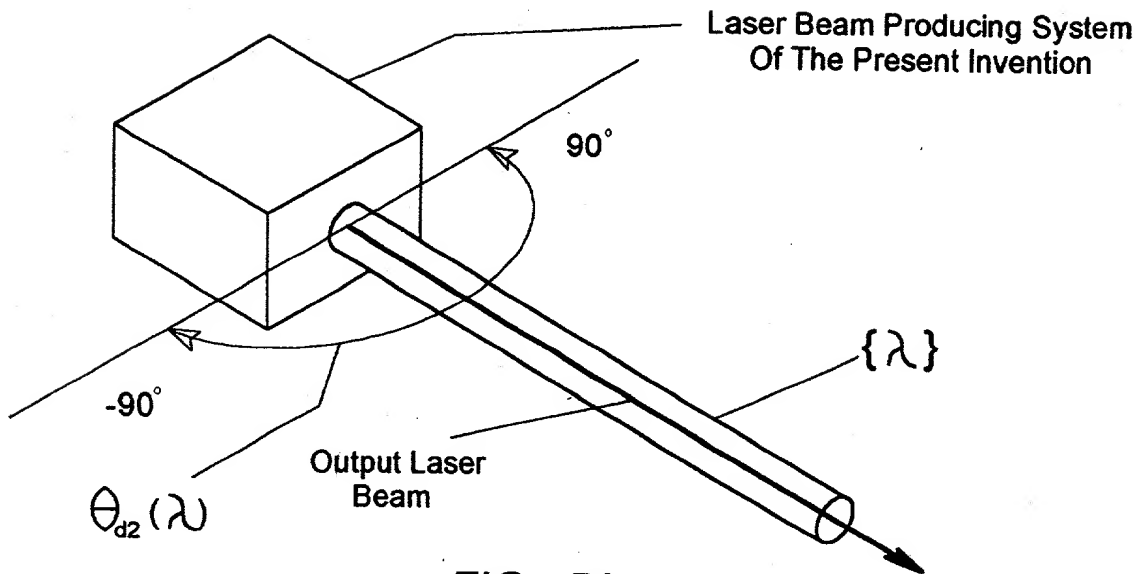


FIG. 5A

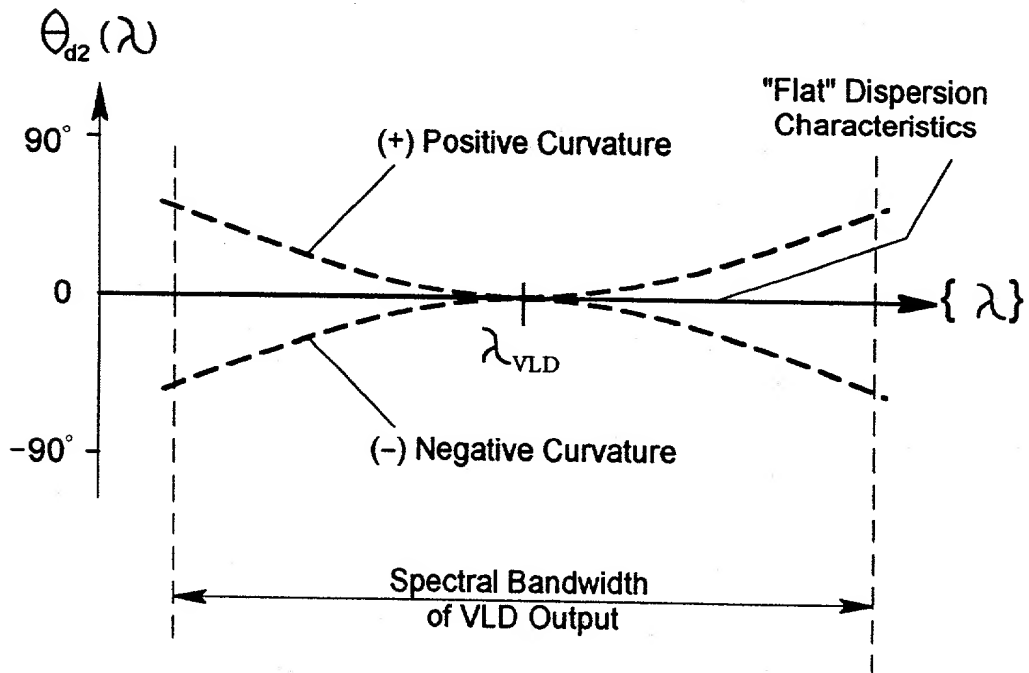


FIG. 5B

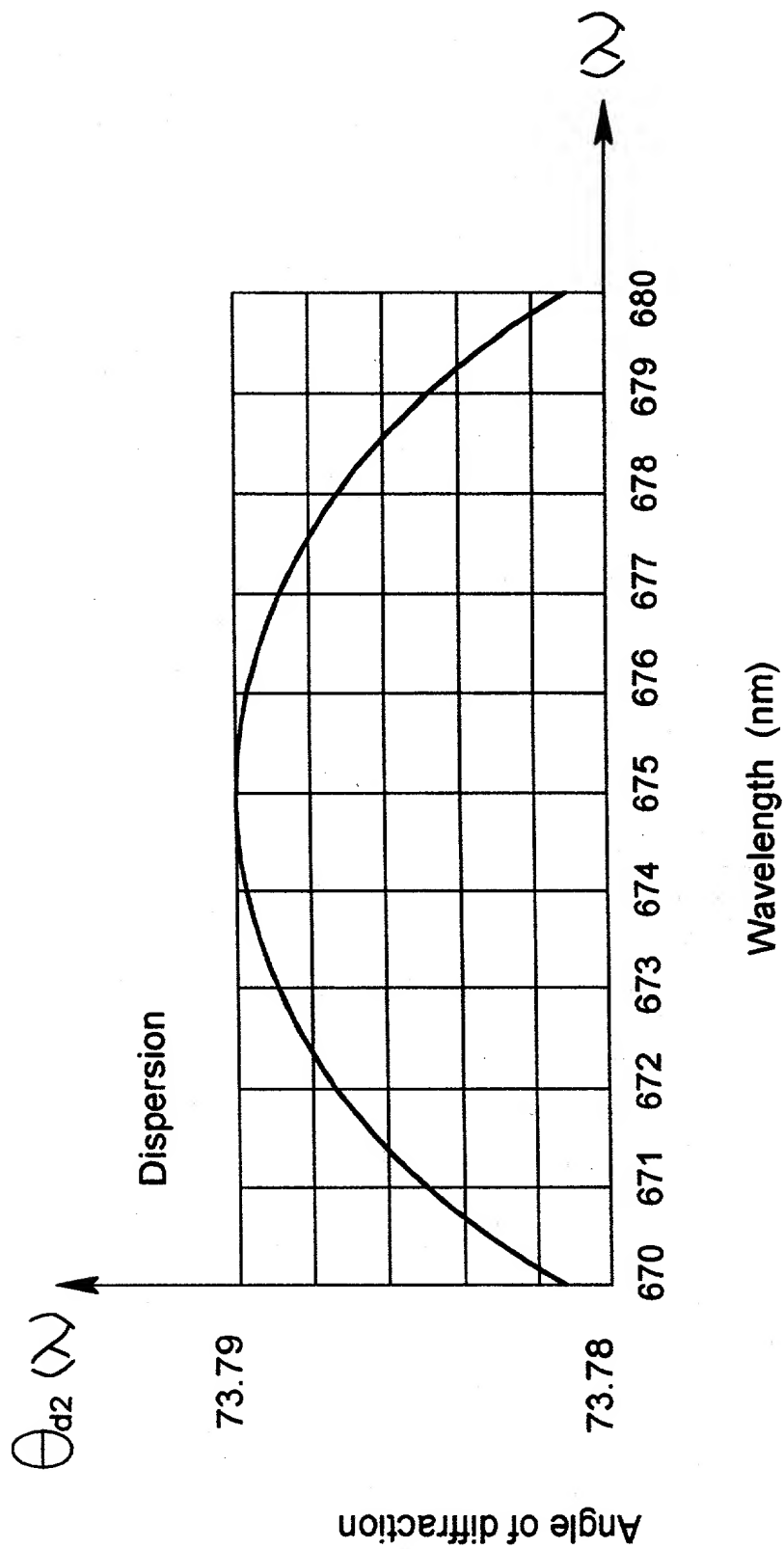


FIG. 5B1

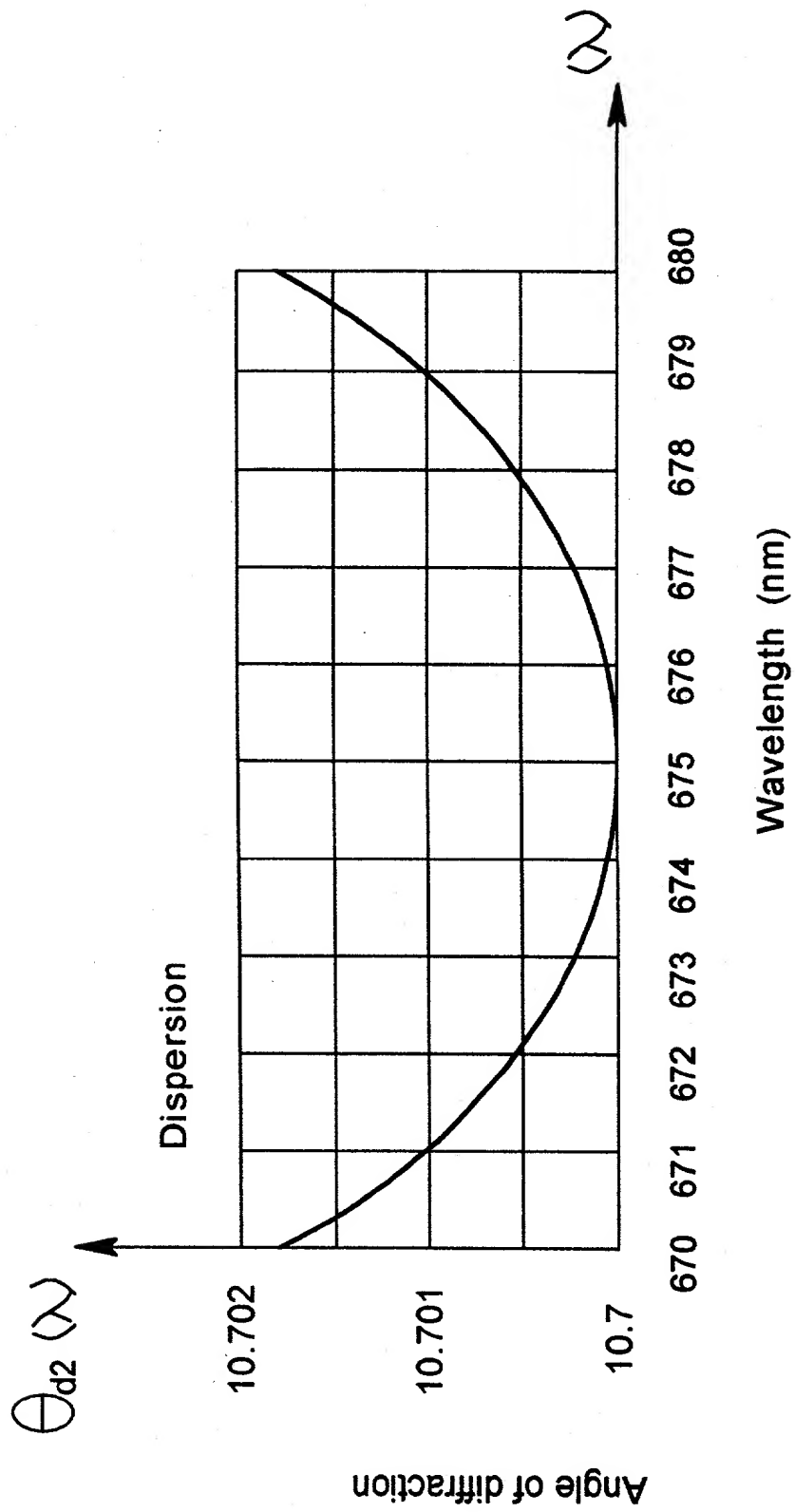
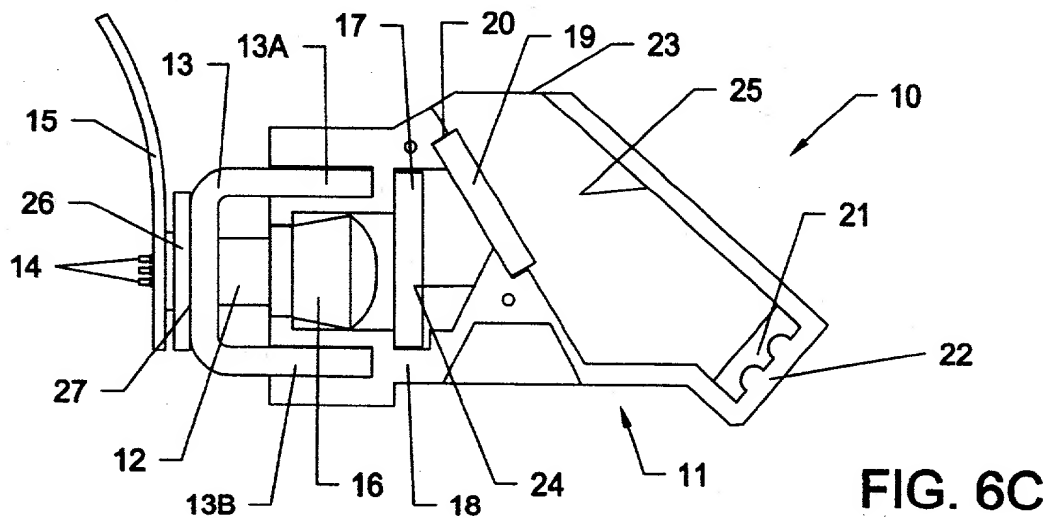
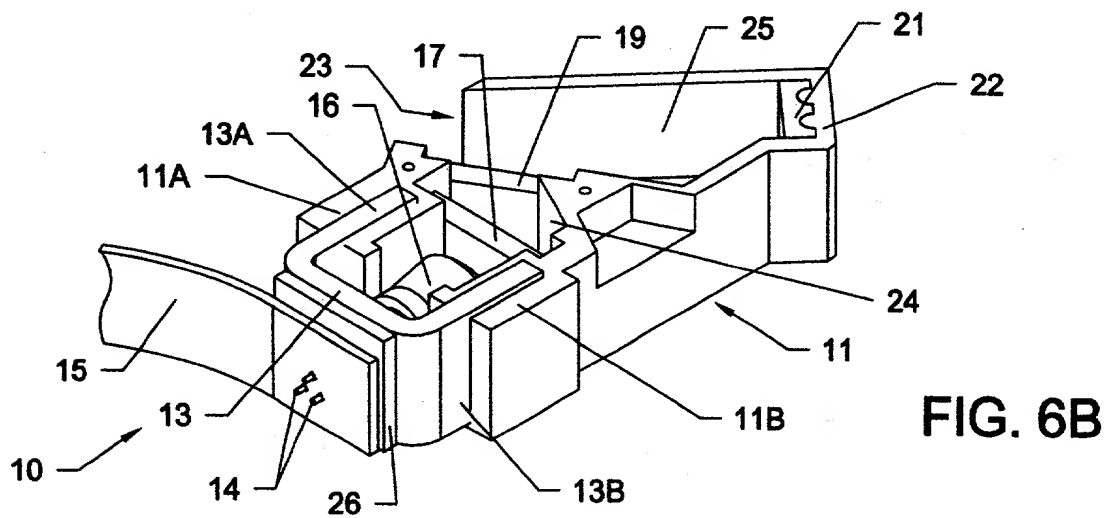
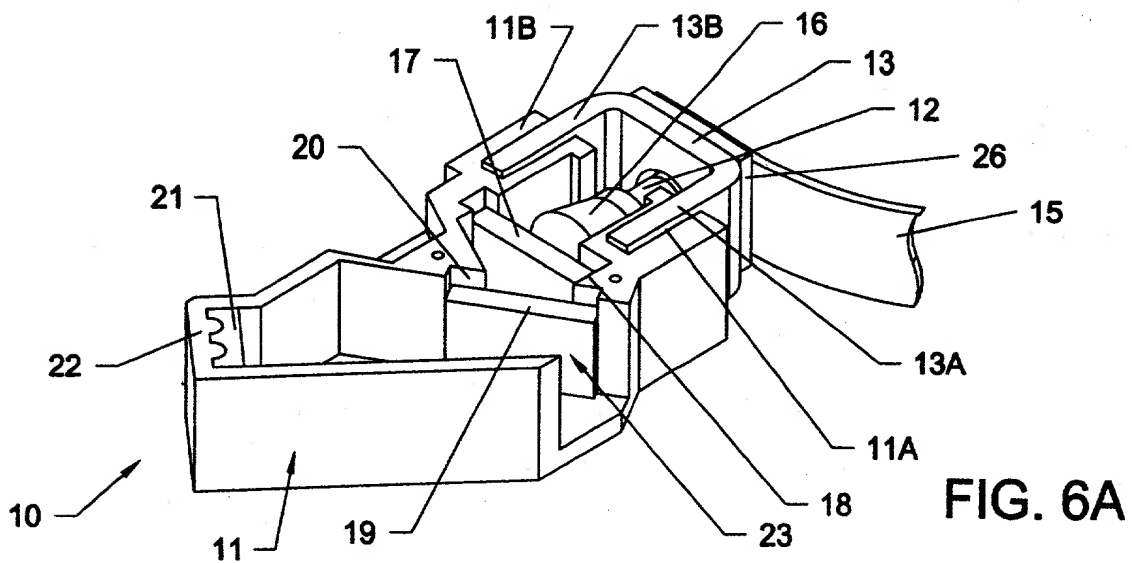


FIG. 5B2



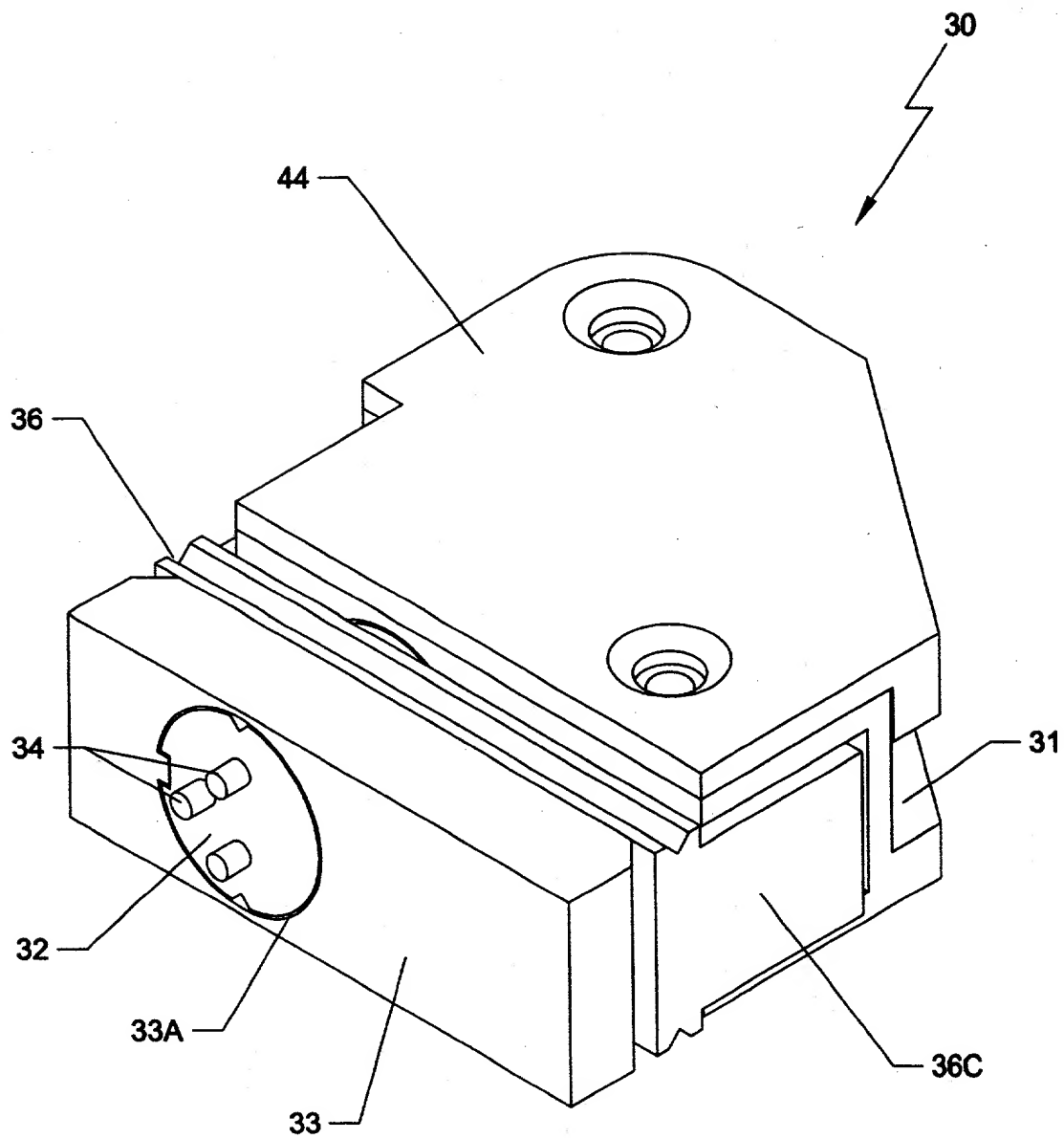


FIG. 7A

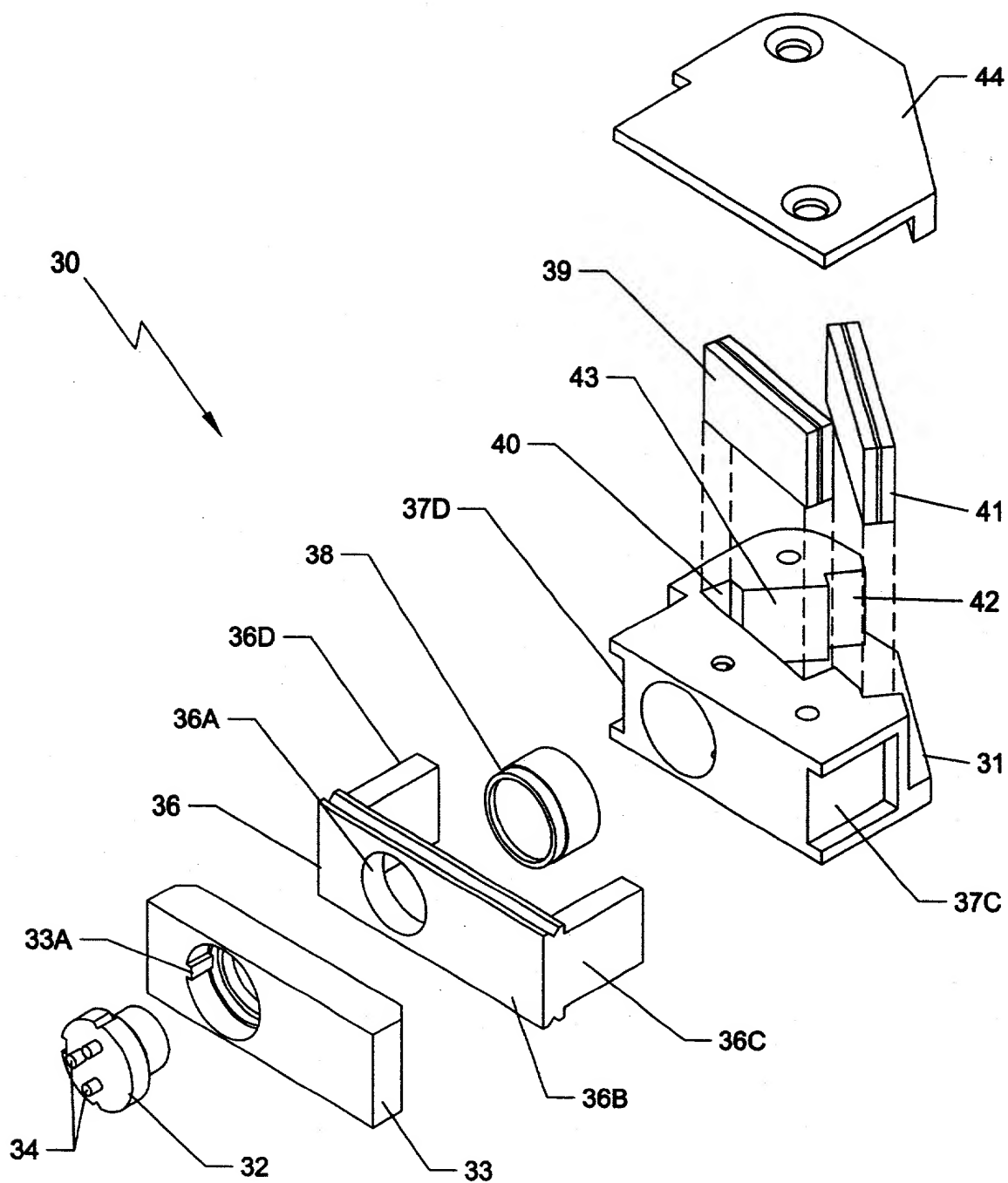


FIG. 7B

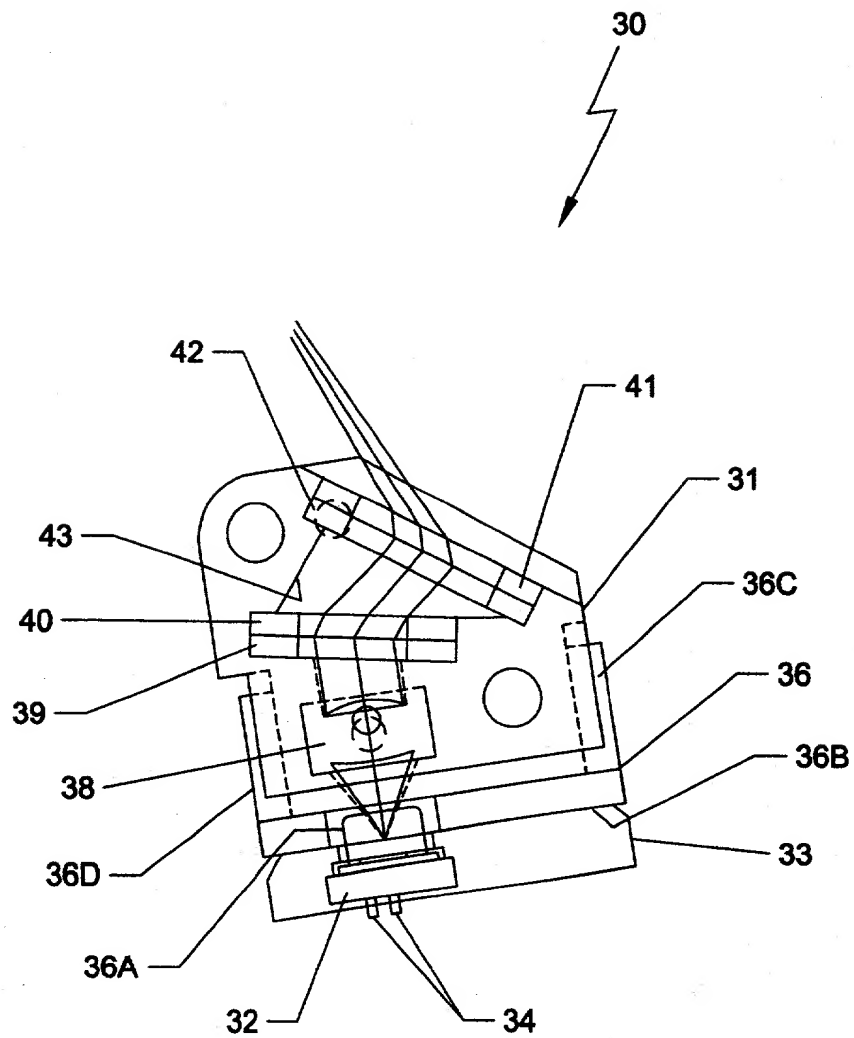


FIG. 7C

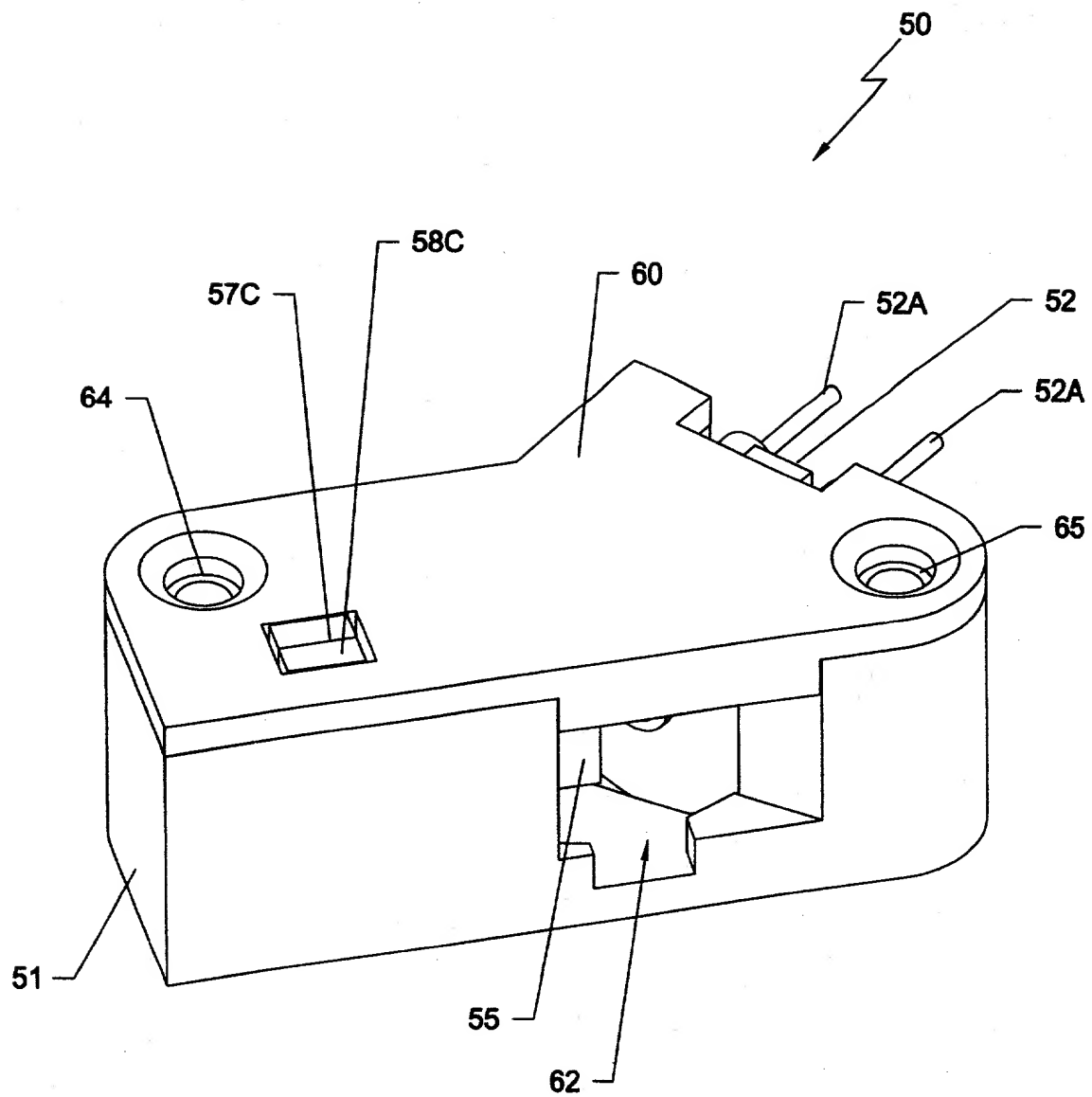


FIG. 8A

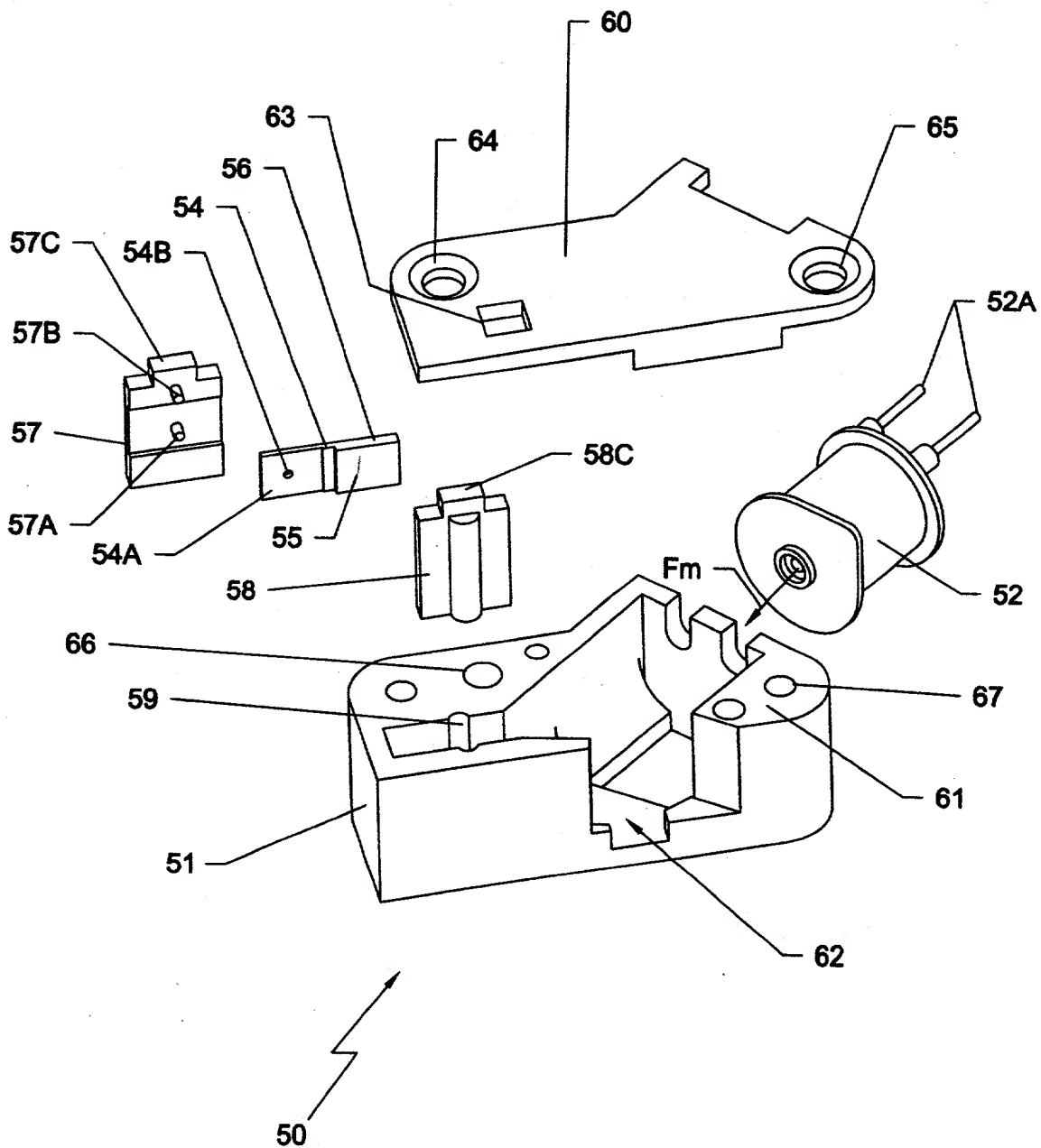


FIG. 8B

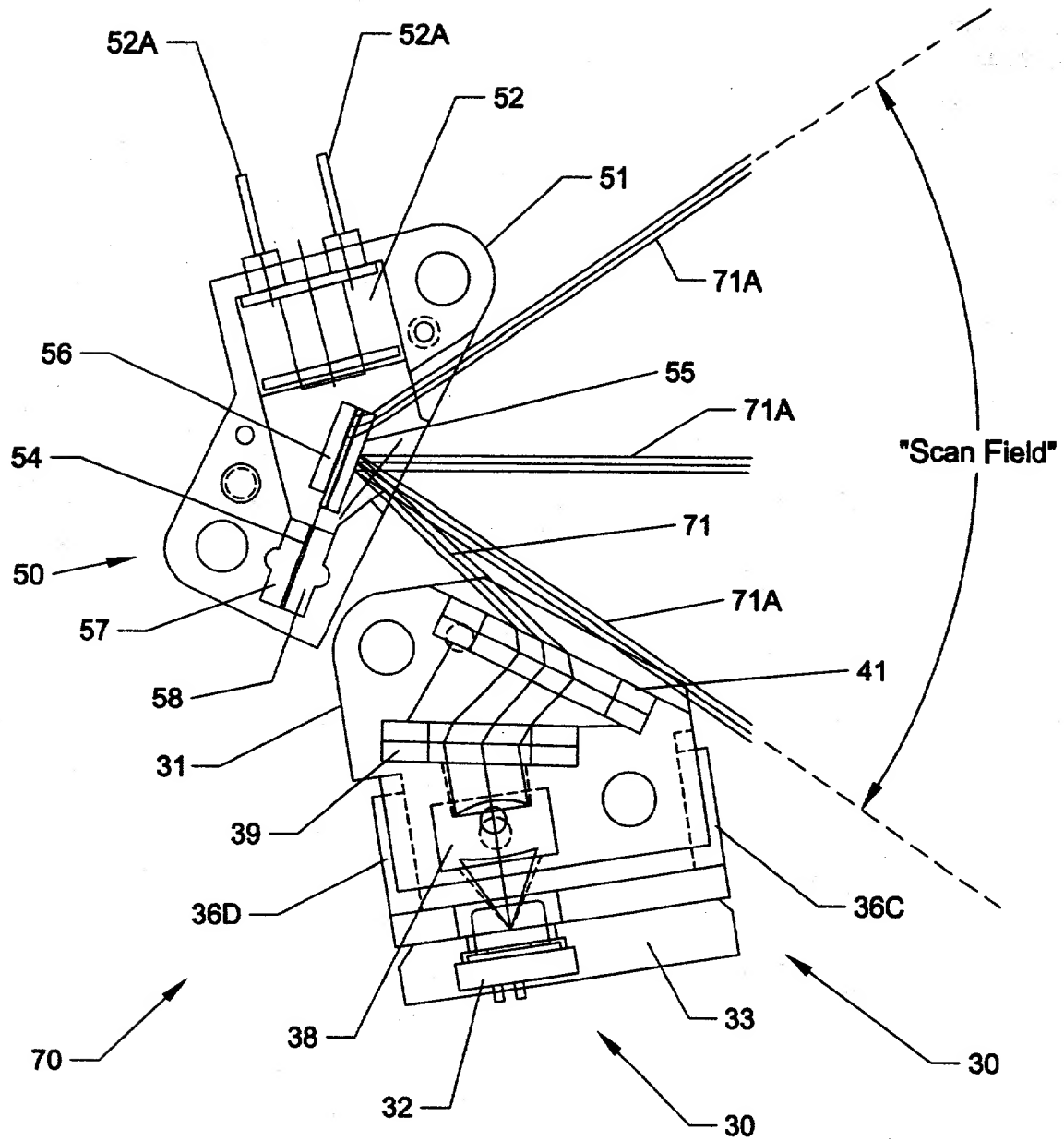


FIG. 9

FIG. 10B is a perspective view of the assembly 80 in a disassembled state. The assembly 80 includes a base 81, a housing 82, a cover 83, a pin 84, a spring 85, a plunger 86, a piston 87, a rod 88, a bush 89, a nut 90, a washer 91, a seal 92, a gasket 93, a flange 94, a bracket 95, a pin 96, a nut 97, a washer 98, a seal 99, a gasket 100, a flange 101, a bracket 102, a pin 103, a nut 104, a washer 105, a seal 106, a gasket 107, a flange 108, a bracket 109, a pin 110, a nut 111, a washer 112, a seal 113, a gasket 114, a flange 115, a bracket 116, a pin 117, a nut 118, a washer 119, a seal 120, a gasket 121, a flange 122, a bracket 123, a pin 124, a nut 125, a washer 126, a seal 127, a gasket 128, a flange 129, a bracket 130, a pin 131, a nut 132, a washer 133, a seal 134, a gasket 135, a flange 136, a bracket 137, a pin 138, a nut 139, a washer 140, a seal 141, a gasket 142, a flange 143, a bracket 144, a pin 145, a nut 146, a washer 147, a seal 148, a gasket 149, a flange 150, a bracket 151, a pin 152, a nut 153, a washer 154, a seal 155, a gasket 156, a flange 157, a bracket 158, a pin 159, a nut 160, a washer 161, a seal 162, a gasket 163, a flange 164, a bracket 165, a pin 166, a nut 167, a washer 168, a seal 169, a gasket 170, a flange 171, a bracket 172, a pin 173, a nut 174, a washer 175, a seal 176, a gasket 177, a flange 178, a bracket 179, a pin 180, a nut 181, a washer 182, a seal 183, a gasket 184, a flange 185, a bracket 186, a pin 187, a nut 188, a washer 189, a seal 190, a gasket 191, a flange 192, a bracket 193, a pin 194, a nut 195, a washer 196, a seal 197, a gasket 198, a flange 199, a bracket 200, a pin 201, a nut 202, a washer 203, a seal 204, a gasket 205, a flange 206, a bracket 207, a pin 208, a nut 209, a washer 210, a seal 211, a gasket 212, a flange 213, a bracket 214, a pin 215, a nut 216, a washer 217, a seal 218, a gasket 219, a flange 220, a bracket 221, a pin 222, a nut 223, a washer 224, a seal 225, a gasket 226, a flange 227, a bracket 228, a pin 229, a nut 230, a washer 231, a seal 232, a gasket 233, a flange 234, a bracket 235, a pin 236, a nut 237, a washer 238, a seal 239, a gasket 240, a flange 241, a bracket 242, a pin 243, a nut 244, a washer 245, a seal 246, a gasket 247, a flange 248, a bracket 249, a pin 250, a nut 251, a washer 252, a seal 253, a gasket 254, a flange 255, a bracket 256, a pin 257, a nut 258, a washer 259, a seal 260, a gasket 261, a flange 262, a bracket 263, a pin 264, a nut 265, a washer 266, a seal 267, a gasket 268, a flange 269, a bracket 270, a pin 271, a nut 272, a washer 273, a seal 274, a gasket 275, a flange 276, a bracket 277, a pin 278, a nut 279, a washer 280, a seal 281, a gasket 282, a flange 283, a bracket 284, a pin 285, a nut 286, a washer 287, a seal 288, a gasket 289, a flange 290, a bracket 291, a pin 292, a nut 293, a washer 294, a seal 295, a gasket 296, a flange 297, a bracket 298, a pin 299, a nut 300, a washer 301, a seal 302, a gasket 303, a flange 304, a bracket 305, a pin 306, a nut 307, a washer 308, a seal 309, a gasket 310, a 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flange 773, a bracket 774, a pin 775, a nut 776, a washer 777, a seal 778, a gasket 779, a flange 780, a bracket 781, a pin 782, a nut 783, a washer 784, a seal 785, a gasket 786, a flange 787, a bracket 788, a pin 789, a nut 790, a washer 791, a seal 792, a gasket 793, a flange 794, a bracket 795, a pin 796, a nut 797, a washer 798, a seal 799, a gasket 800, a flange 801, a bracket 802, a pin 803, a nut 804, a washer 805, a seal 806, a gasket 807, a flange 808, a bracket 809, a pin 810, a nut 811, a washer 812, a seal 813, a gasket 814, a flange 815, a bracket 816, a pin 817, a nut 818, a washer 819, a seal 820, a gasket 821, a flange 822, a bracket 823, a pin 824, a nut 825, a washer 826, a seal 827, a gasket 828, a flange 829, a bracket 830, a pin 831, a nut 832, a washer 833, a seal 834, a gasket 835, a flange 836, a bracket 837, a pin 838, a nut 839, a washer 840, a seal 841, a gasket 842, a flange 843, a bracket 844, a pin 845, a nut 846, a washer 847, a seal 848, a gasket 849, a flange 850, a bracket 851, a pin 852, a nut 853, a washer 854, a seal 855, a gasket 856, a flange 857, a bracket 858, a pin 859, a nut 860, a washer 861, a seal 862, a gasket 863, a flange 864, a bracket 865, a pin 866, a nut 867, a washer 868, a seal 869, a gasket 870, a flange 871, a bracket 872, a pin 873, a nut 874, a washer 875, a seal 876, a gasket 877, a flange 878, a bracket 879, a pin 880, a nut 881, a washer 882, a seal 883, a gasket 884, a flange 885, a bracket 886, a pin 887, a nut 888, a washer 889, a seal 890, a gasket 891, a flange 892, a bracket 893, a pin 894, a nut 895, a washer 896, a seal 897, a gasket 898, a flange 899, a bracket 900, a pin 901, a nut 902, a washer 903, a seal 904, a gasket 905, a flange 906, a bracket 907, a pin 908, a nut 909, a washer 910, a seal 911, a gasket 912, a flange 913, a bracket 914, a pin 915, a nut 916, a washer 917, a seal 918, a gasket 919, a flange 920, a bracket 921, a pin 922, a nut 923, a washer 924, a seal 925, a gasket 926, a flange 927, a bracket 928, a pin 929, a nut 930, a washer 931, a seal 932, a gasket 933, a flange 934, a bracket 935, a pin 936, a nut 937, a washer 938, a seal 939, a gasket 940, a flange 941, a bracket 942, a pin 943, a nut 944, a washer 945, a seal 946, a gasket 947, a flange 948, a bracket 949, a pin 950, a nut 951, a washer 952, a seal 953, a gasket 954, a flange 955, a bracket 956, a pin 957, a nut 958, a washer 959, a seal 960, a gasket 961, a flange 962, a bracket 963, a pin 964, a nut 965, a washer 966, a seal 967, a gasket 968, a flange 969, a bracket 970, a pin 971, a nut 972, a washer 973, a seal 974, a gasket 975, a flange 976, a bracket 977, a pin 978, a nut 979, a washer 980, a seal 981, a gasket 982, a flange 983, a bracket 984, a pin 985, a nut 986, a washer 987, a seal 988, a gasket 989, a flange 990, a bracket 991, a pin 992, a nut 993, a washer 994, a seal 995, a gasket 996, a flange 997, a bracket 998, a pin 999, a nut 1000, a washer 1001, a seal 1002, a gasket 1003, a flange 1004, a bracket 1005, a pin 1006, a nut 1007, a washer 1008, a seal 1009, a gasket 1010, a flange 1011, a bracket 1012, a pin 1013, a nut 1014, a washer 1015, a seal 1016, a gasket 1017, a flange 1018, a bracket 1019, a pin 1020, a nut 1021, a washer 1022, a seal 1023, a gasket 1024, a flange 1025, a bracket 1026, a pin 1027, a nut 1028, a washer 1029, a seal 1030, a gasket 1031, a flange 1032, a bracket 1033, a pin 1034, a nut 1035, a washer 1036, a seal 1037, a gasket 1038, a flange 1039, a bracket 1040, a pin 1041, a nut 1042, a washer 1043, a seal 1044, a gasket 1045, a flange 1046, a bracket 1047, a pin 1048, a nut 1049, a washer 1050, a seal 1051, a gasket 1052, a flange 1053, a bracket 1054, a pin 1055, a nut 1056, a washer 1057, a seal 1058, a gasket 1059, a flange 1060, a bracket 1061, a pin 1062, a nut 1063, a washer 1064, a seal 1065, a gasket 1066, a flange 1067, a bracket 1068, a pin 1069, a nut 1070, a washer 1071, a seal 1072, a gasket 1073, a flange 1074, a bracket 1075, a pin 1076, a nut 1077, a washer 1078, a seal 1079, a gasket 1080, a flange 1081, a bracket 1082, a pin 1083, a nut 1084, a washer 1085, a seal 1086, a gasket 1087, a flange 1088, a bracket 1089, a pin 1090, a nut 1091, a washer 1092, a seal 1093, a gasket 1094, a flange 1095, a bracket 1096, a pin 1097, a nut 1098, a washer 1099, a seal 1100, a gasket 1101, a flange 1102, a bracket 1103, a pin 1104, a nut 1105, a washer 1106, a seal 1107, a gasket 1108, a flange 1109, a bracket 1110, a pin 1111, a nut 1112, a washer 1113, a seal 1114, a gasket 1115, a flange 1116, a bracket 1117, a pin 1118, a nut 1119, a washer 1120, a seal 1121, a gasket 1122, a flange 1123, a bracket 1124, a pin 1125, a nut 1126, a washer 1127, a seal 1128, a gasket 1129, a flange 1130, a bracket 1131, a pin 1132, a nut 1133, a washer 1134, a seal 1135, a gasket 1136, a flange 1137, a bracket 1138, a pin 1139, a nut 1140, a washer 1141, a seal 1142, a gasket 1143, a flange 1144, a bracket 1145, a pin 1146, a nut 1147, a washer 1148, a seal 1149, a gasket 1150, a flange 1151, a bracket 1152, a pin 1153, a nut 1154, a washer 1155, a seal 1156, a gasket 1157, a flange 1158, a bracket 1159, a pin 1160, a nut 1161, a washer 1162, a seal 1163, a gasket 1164, a flange 1165, a bracket 1166, a pin 1167, a nut 1168, a washer 1169, a seal 1170, a gasket 1171, a flange 1172, a bracket 1173, a pin 1174, a nut 1175, a washer 1176, a seal 1177, a gasket 1178, a flange 1179, a bracket 1180, a pin 1181, a nut 1182, a washer 1183, a seal 1184, a gasket 1185, a flange 1186, a bracket 1187, a pin 1188, a nut 1189, a washer 1190, a seal 1191, a gasket 1192, a flange 1193, a bracket 1194, a pin 1195, a nut 1196, a washer 1197, a seal 1198, a gasket 1199, a flange 1200, a bracket 1201, a pin 1202, a nut 1203, a washer 1204, a seal 1205, a gasket 1206, a flange 1207, a bracket 1208, a pin 1209, a nut 1210, a washer 1211, a seal 1212, a gasket 1213, a flange 1214, a bracket 1215, a pin 1216, a nut 1217, a washer 1218, a seal 1219, a gasket 1220, a flange 1221, a bracket 1222, a pin 1223, a nut 1224, a washer 1225, a seal 1226, a gasket 1227, a flange 1228, a bracket 1229, a pin 1230, a nut 1231, a washer 1232, a seal 1233, a gasket 1234, a flange 1235, a bracket 1236, a pin 1237, a nut 1238, a washer 1239, a seal 1240, a gasket 1241, a flange 1242, a bracket 1243, a pin 1244, a nut 1245, a washer 1246, a seal 1247, a gasket 1248, a flange 1249, a bracket 1250, a pin 1251, a nut 1252, a washer 1253, a seal 1254, a gasket 1255, a flange 1256, a bracket 1257, a pin 1258, a nut 1259, a washer 1260, a seal 1261, a gasket 1262, a flange 1263, a bracket 1264, a pin 1265, a nut 1266, a washer 1267, a seal 1268, a gasket 1269, a flange 1270, a bracket 1271, a pin 1272, a nut 1273, a washer 1274, a seal 1275, a gasket 1276, a flange 1277, a bracket 1278, a pin 1279, a nut 1280, a washer 1281, a seal 1282, a gasket 1283, a flange 1284, a bracket 1285, a pin 1286, a nut 1287, a washer 1288, a seal 1289, a gasket 1290, a flange 1291, a bracket 1292, a pin 1293, a nut 1294, a washer 1295, a seal 1296, a gasket 1297, a flange 1298, a bracket 1299, a pin 1300, a nut 1301, a washer 1302, a seal 1303, a gasket 1304, a flange 1305, a bracket 1306, a pin 1307, a nut 1308, a washer 1309, a seal 1310, a gasket 1311, a flange 1312, a bracket 1313, a pin 1314, a nut 1315, a washer 1316, a seal 1317, a gasket 1318, a flange 1319, a bracket 1320, a pin 1321, a nut 1322, a washer 1323, a seal 1324, a gasket 1325, a flange 1326, a bracket 1327, a pin 1328, a nut 1329, a washer 1330, a seal 1331, a gasket 1332, a flange 1333, a bracket 1334, a pin 1335, a nut 1336, a washer 1337, a seal 1338, a gasket 1339, a flange 1340, a bracket 1341, a pin 1342, a nut 1343, a washer 1344, a seal 1345, a gasket 1346, a flange 1347, a bracket 1348, a pin 1349, a nut 1350, a washer 1351, a seal 1352, a gasket 1353, a flange 1354, a bracket 1355, a pin 1356, a nut 1357, a washer 1358, a seal 1359, a gasket 1360, a flange 1361, a bracket 1362, a pin 1363, a nut 1364, a washer 1365, a seal 1366, a gasket 1367, a flange 1368, a bracket 1369, a pin 1370, a nut 1371, a washer 1372, a seal 1373, a gasket 1374, a flange 1375, a bracket 1376, a pin 1377, a nut 1378, a washer 1379, a seal 1380, a gasket 1381, a flange 1382, a bracket 1383, a pin 1384, a nut 1385, a washer 1386, a seal 1387, a gasket 1388, a flange 1389, a bracket 1390, a pin 1391, a nut 1392, a washer 1393, a seal 1394, a gasket 1395, a flange 1396, a bracket 1397, a pin 1398, a nut 1399, a washer 1400, a seal 1401, a gasket 1402, a flange 1403, a bracket 1404, a pin 1405, a nut 1406, a washer 1407, a seal 1408, a gasket 1409, a flange 1410, a bracket 1411, a pin 1412, a nut 1413, a washer 1414, a seal 1415, a gasket 1416, a flange 1417, a bracket 1418, a pin 1419, a nut 1420, a washer 1421, a seal 1422, a gasket 1423, a flange 1424, a bracket 1425, a pin 1426, a nut 1427, a washer 1428, a seal 1429, a gasket 1430, a flange 1431, a bracket 1432, a pin 1433, a nut 1434, a washer 1435, a seal 1436, a gasket 1437, a flange 1438, a bracket 1439, a pin 1440, a nut 1441, a washer 1442, a seal 1443, a gasket 1444, a flange 1445, a bracket 1446, a pin 1447, a nut 1448, a washer 1449, a seal 1450, a gasket 1451, a flange 1452, a bracket 1453, a pin 1454, a nut 1455, a washer 1456, a seal 1457, a gasket 1458, a flange 1459, a bracket 1460, a pin 1461, a nut 1462, a washer 1463, a seal 1464, a gasket 1465, a flange 1466, a bracket 1467, a pin 1468, a nut 1469, a washer 1470, a seal 1471, a gasket 1472, a flange 1473, a bracket 1474, a pin 1475, a nut 1476, a washer 1477, a seal 1478, a gasket 1479, a flange 1480, a bracket 1481, a pin 1482, a nut 1483, a washer 1484, a seal 1485, a gasket 1486, a flange 1487, a bracket 1488, a pin 1489, a nut 1490, a washer 1491, a seal 1492, a gasket 1493, a flange 1494, a bracket 1495, a pin 1496, a nut 1497, a washer 1498, a seal 1499, a gasket 1500, a flange 1501, a bracket 1502, a pin 1503, a nut 1504, a washer 1505, a seal 1506, a gasket 1507, a flange 1508, a bracket 1509, a pin 1510, a nut 1511, a washer 1512, a seal 1513, a gasket 1514, a flange 1515, a bracket 1516, a pin 1517, a nut 1518, a washer 1519, a seal 1520, a gasket 1521, a flange 1522, a bracket 1523, a pin 1524, a nut 1525, a washer 1526, a seal 1527, a gasket 1528, a flange 1529, a bracket 1530, a pin 1531, a nut 1532, a washer 1533, a seal 1534, a gasket 1535, a flange 1536, a bracket 1537, a pin 1538, a nut 1539, a washer 1540, a seal 1541, a gasket 1542, a flange 1543, a bracket 1544, a pin 1545, a nut 1546, a washer 1547, a seal 1548, a gasket 1549, a flange 1550, a bracket 1551, a pin 1552, a nut 1553, a washer 1554, a seal 1555, a gasket 1556, a flange 1557, a bracket 1558, a pin 1559, a nut 1560, a washer 1561, a seal 1562, a gasket 1563, a flange 1564, a bracket 1565, a pin 1566, a nut 1567, a washer 1568, a seal 1569, a gasket 1570, a flange 1571, a bracket 1572, a pin 1573, a nut 1574, a washer 1575, a seal 1576, a gasket 1577, a flange 1578, a bracket 1579, a pin 1580, a nut 1581, a washer 1582, a seal 1583, a gasket 1584, a flange 1585, a bracket 1586, a pin 1587, a nut 1588, a washer 1589, a seal 1590, a gasket 1591, a flange 1592, a bracket 1593, a pin 1594, a nut 1595, a washer 1596, a seal 1597, a gasket 1598, a flange 1599, a bracket 1600, a pin 1601, a nut 1602, a washer 1603, a seal 1604, a gasket 1605, a flange 1606, a bracket 1607, a pin 1608, a nut 1609, a washer 1610, a seal 1611, a gasket 1612, a flange 1613, a bracket 1614, a pin 1615, a nut 1616, a washer 1617, a seal 1618, a gasket 1619, a flange 1620, a bracket 1621, a pin 1622, a nut 1623, a washer 1624, a seal 1625, a gasket 1626, a flange 1627, a bracket 1628, a pin 1629, a nut 1630, a washer 1631, a seal 1632, a gasket 1633, a flange 1634, a bracket 1635, a pin 1636, a nut 1637, a washer 1638, a seal 1639, a gasket 1640, a flange 1641, a bracket 1642, a pin 1643, a nut 1644, a washer 1645, a seal 1646, a gasket 1647, a flange 1648, a bracket 1649, a pin 1650, a nut 1651, a washer 1652, a seal 1653, a gasket 1654, a flange 1655, a bracket 1656, a pin 1657, a nut 1658, a washer 1659, a seal 1660, a gasket 1661, a flange 1662, a bracket 1663, a pin 1664, a nut 1665, a washer 1666, a seal 1667, a gasket 1668, a flange 1669, a bracket 1670, a pin 1671, a nut 1672, a washer 1673, a seal 1674, a gasket 1675, a flange 1676, a bracket 1677, a pin 1678, a nut 1679, a washer 1680, a seal 1681, a gasket

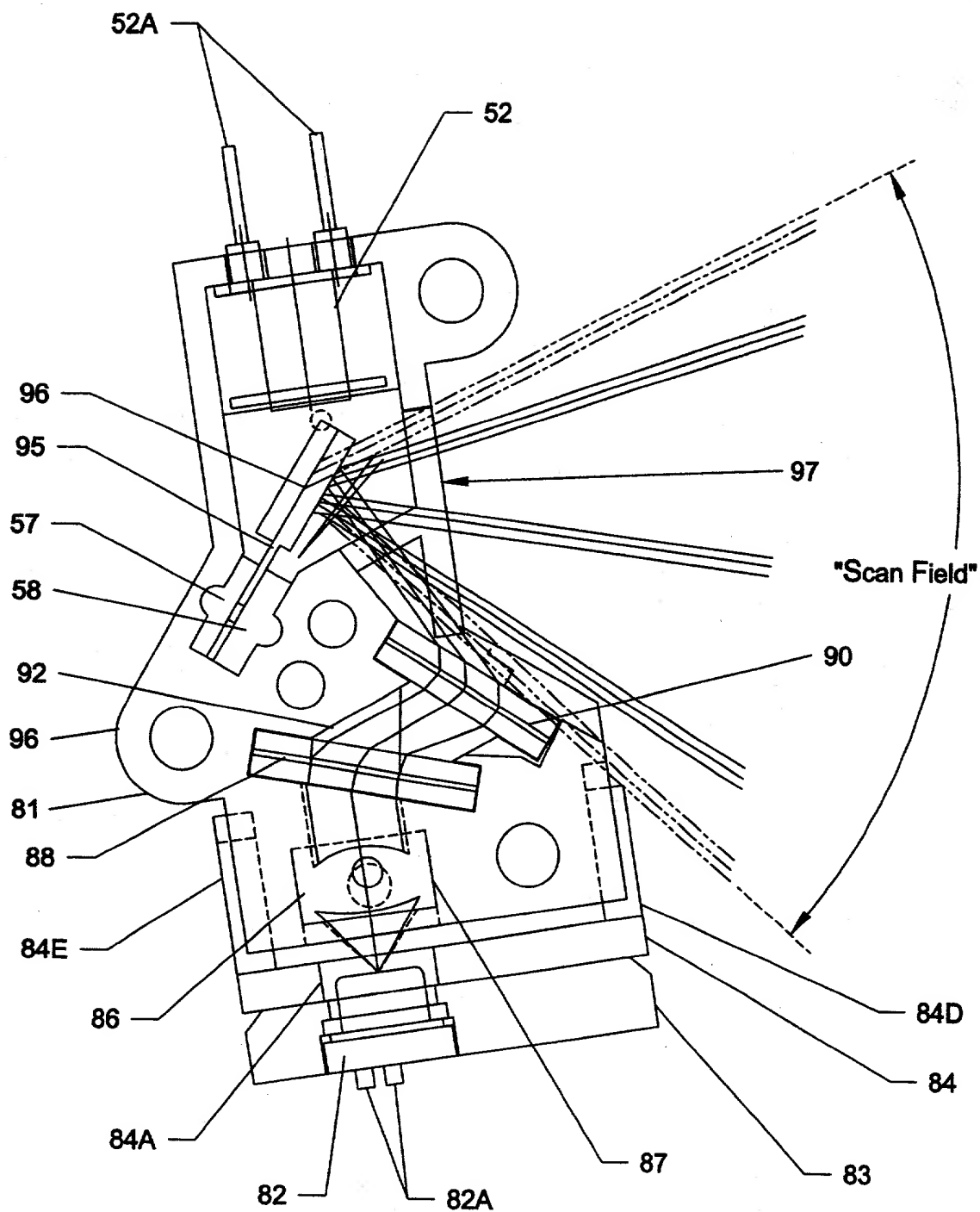


FIG. 10C

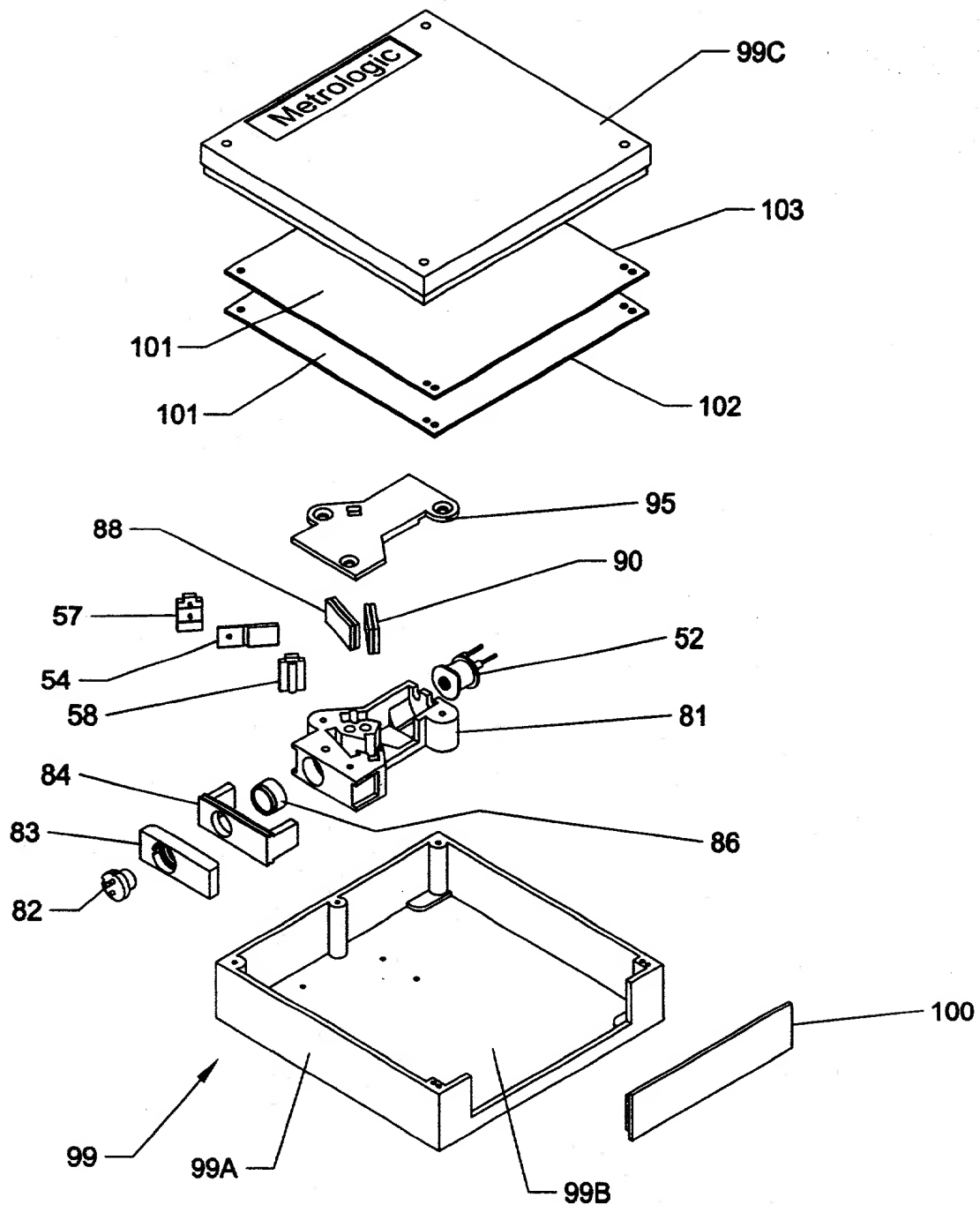


FIG. 10D

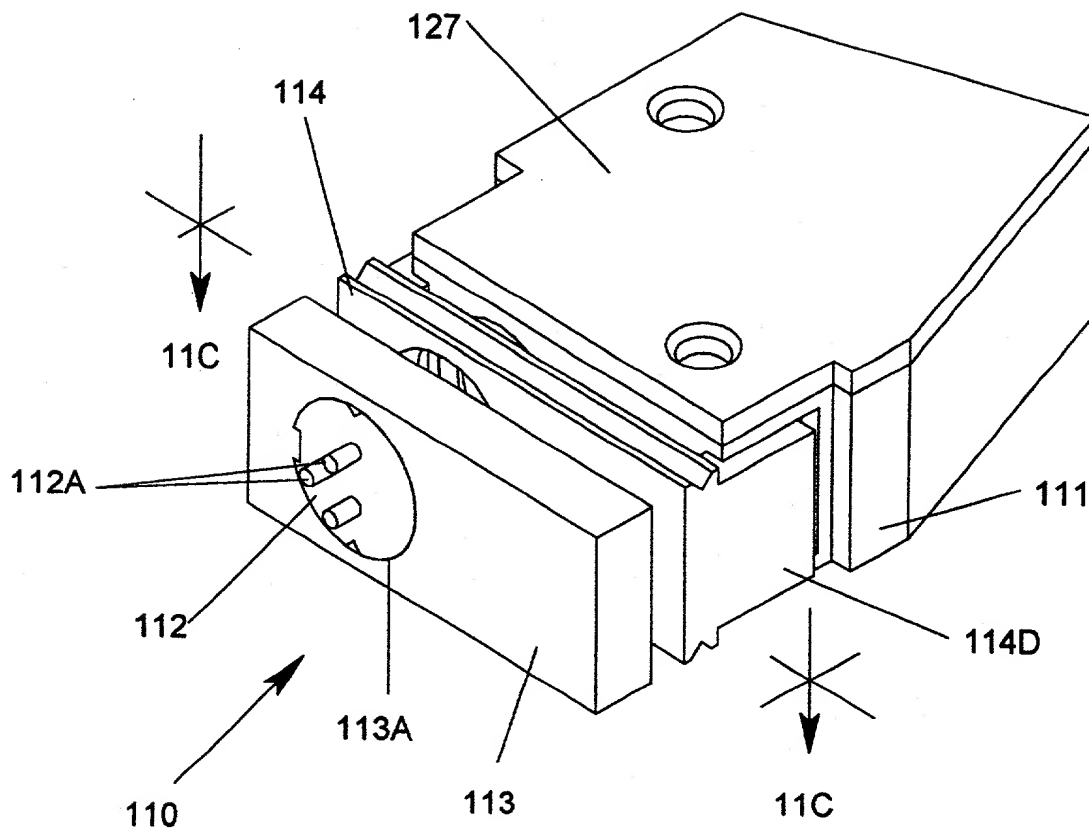


FIG. 11A

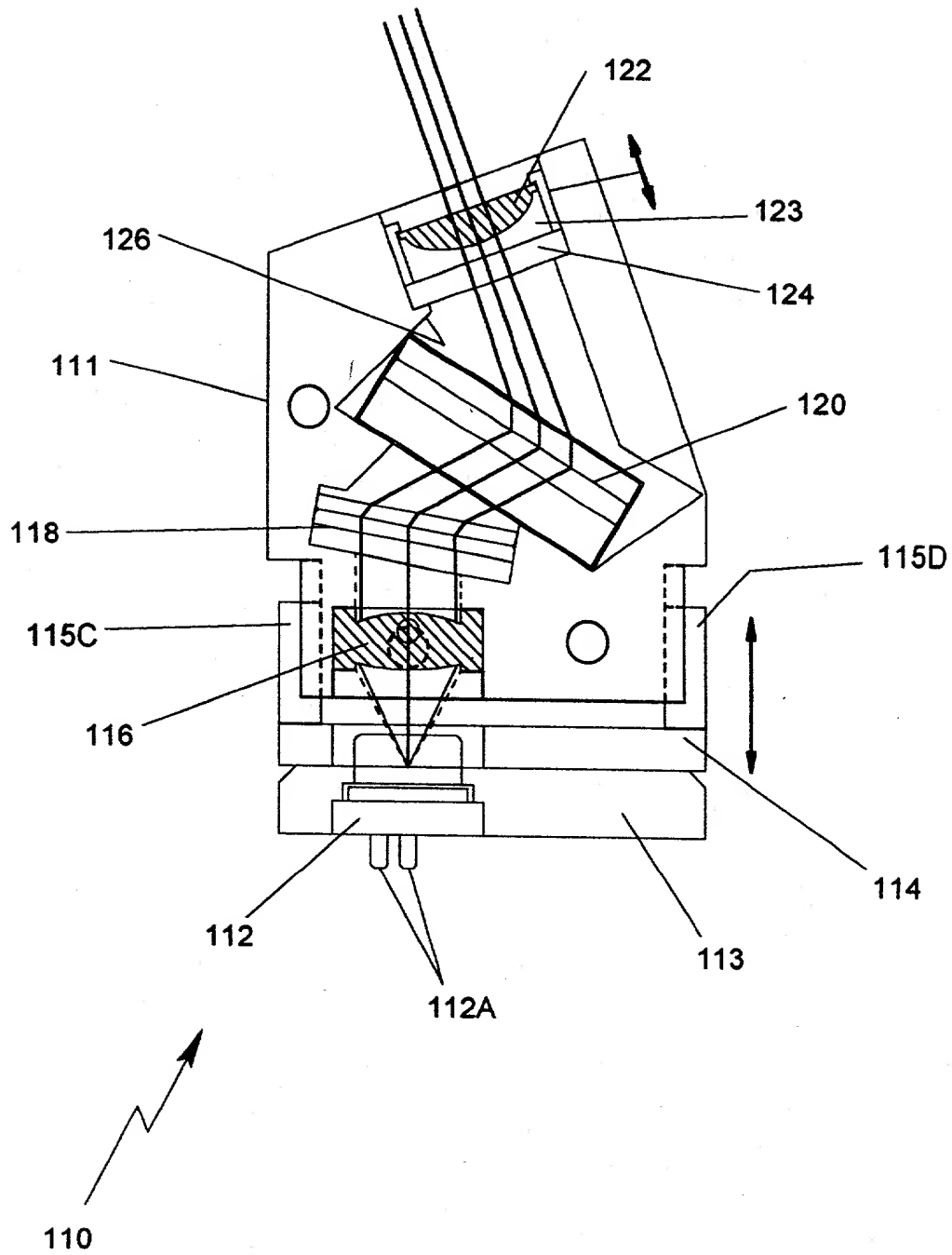


FIG. 11C

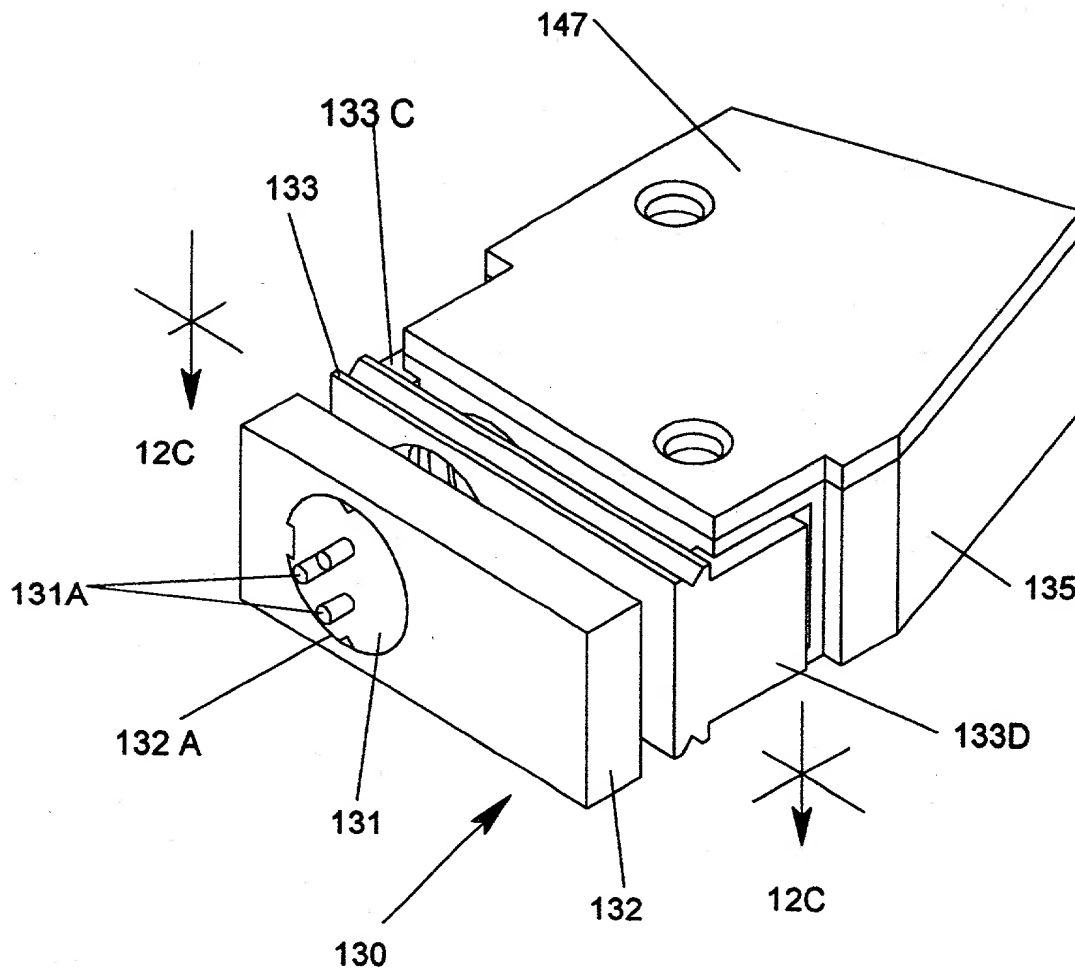


FIG. 12A

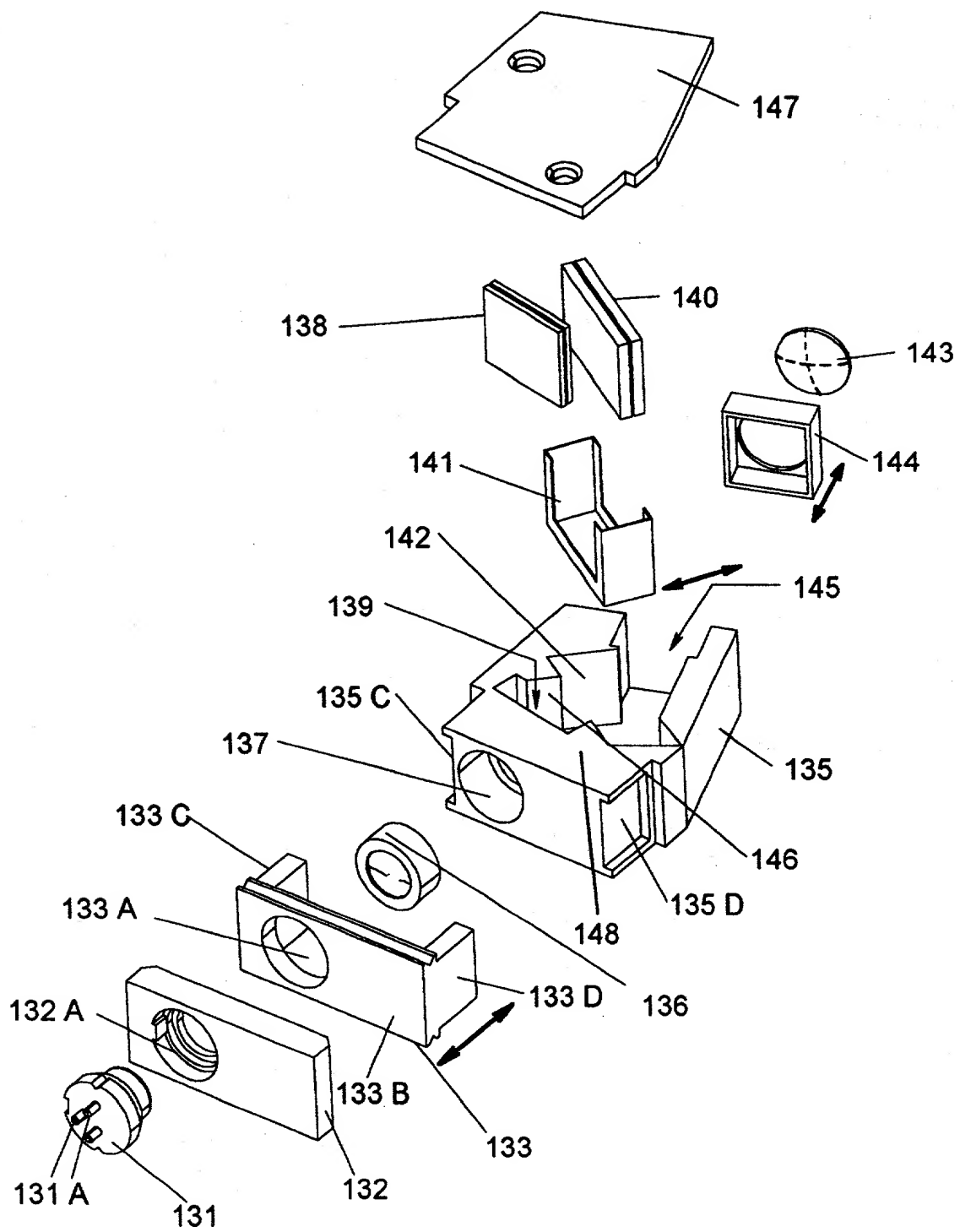


FIG. 12B

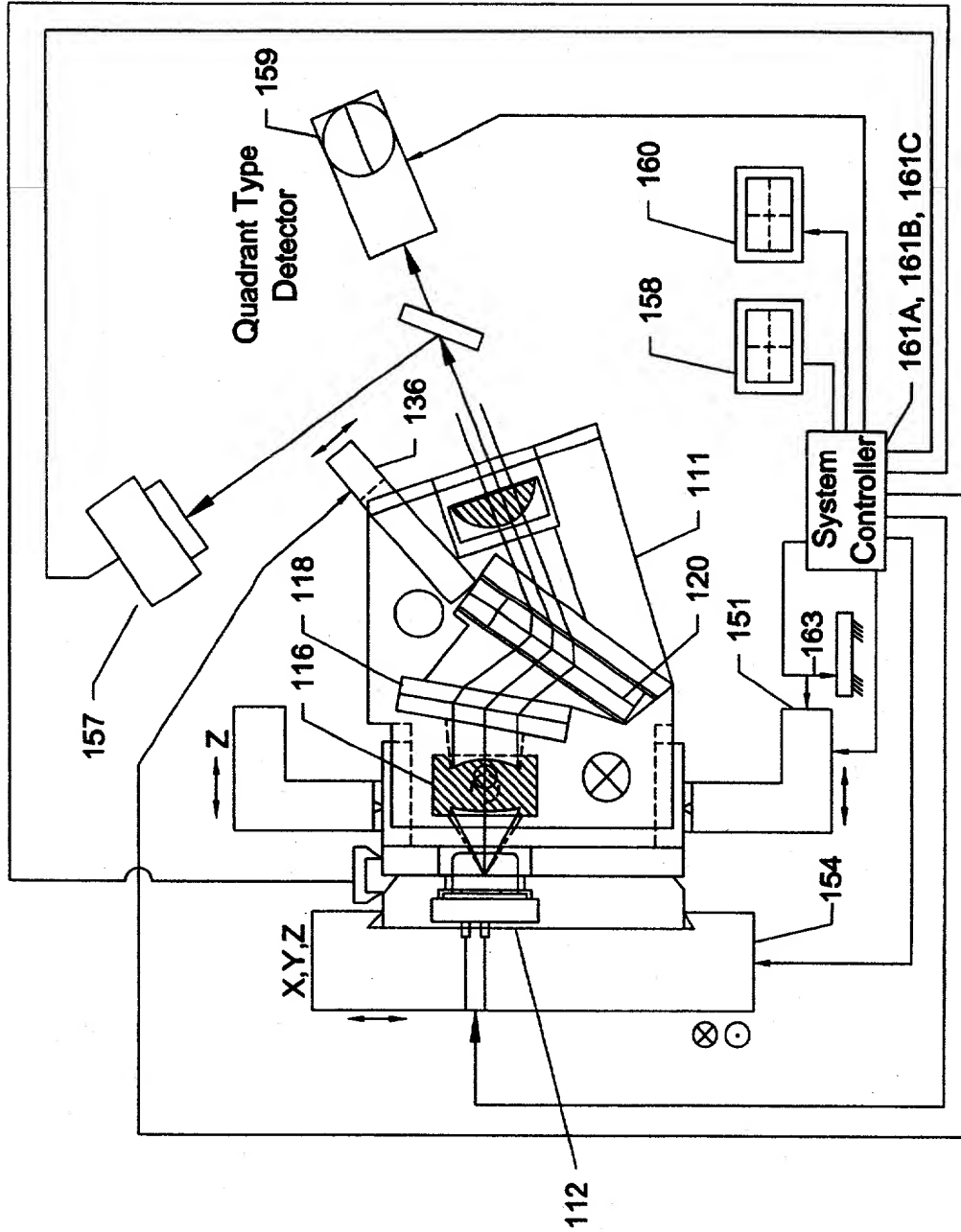


FIG. 15
 (Case B)

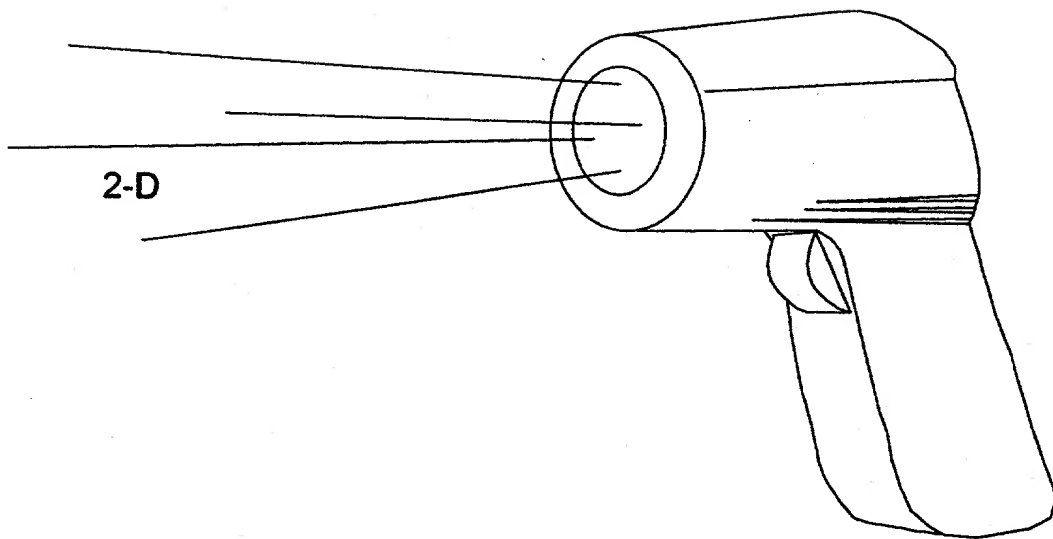


FIG. 18

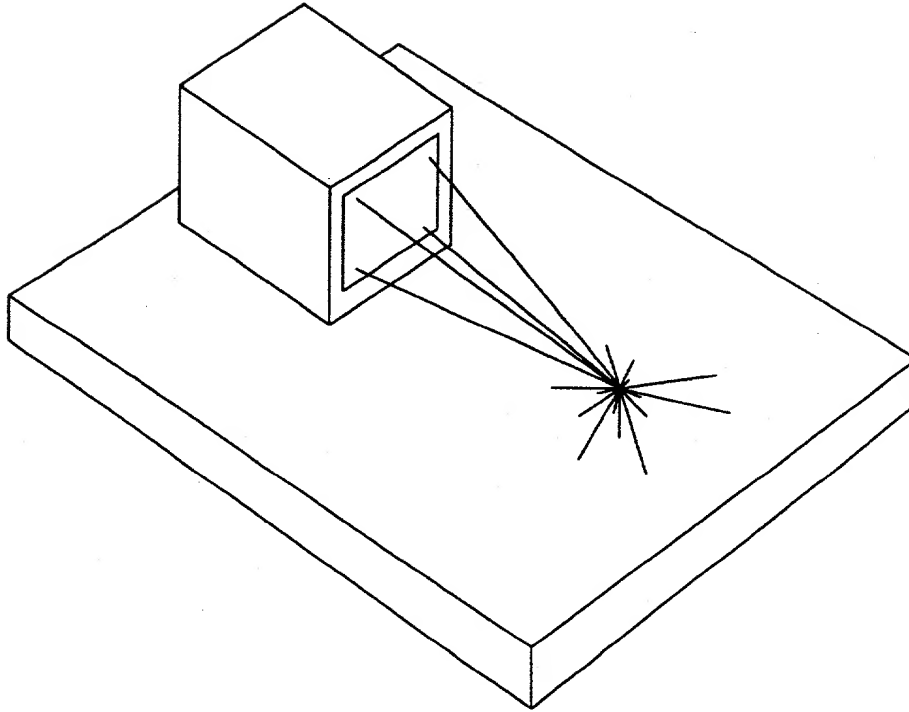


FIG. 19

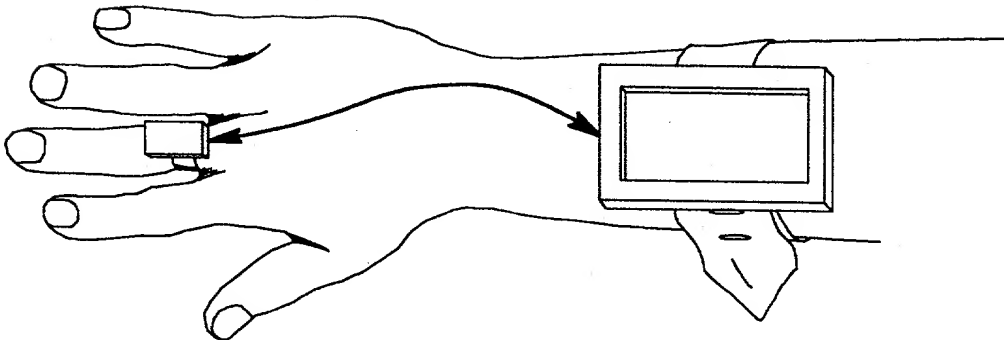


FIG. 20

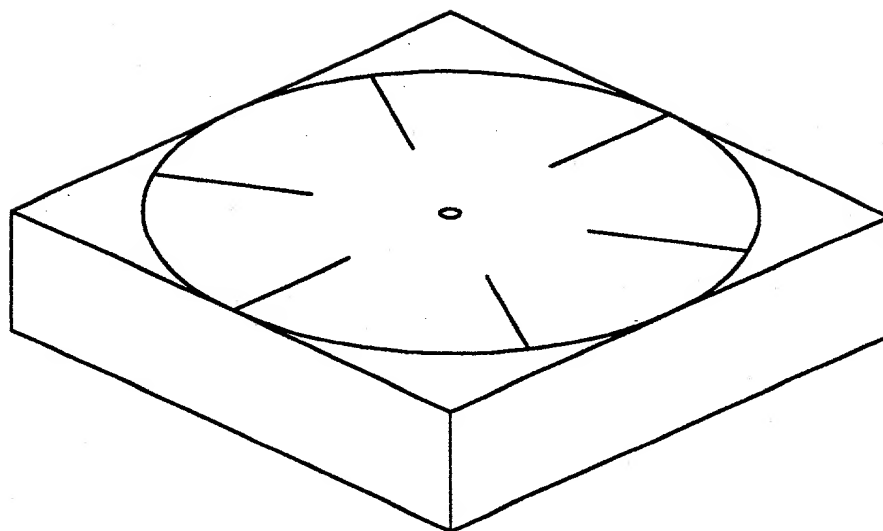


FIG. 21

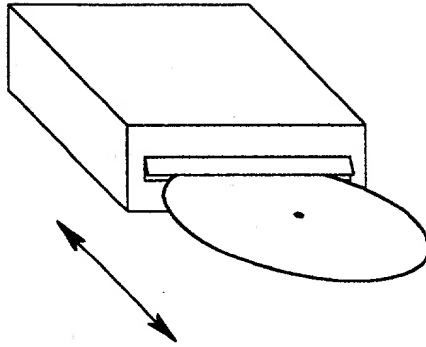


FIG. 22

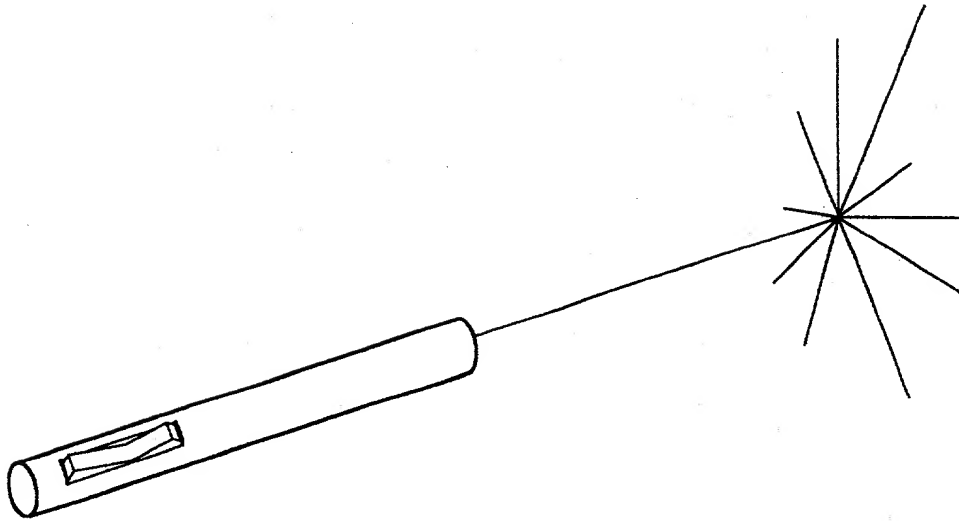


FIG. 23

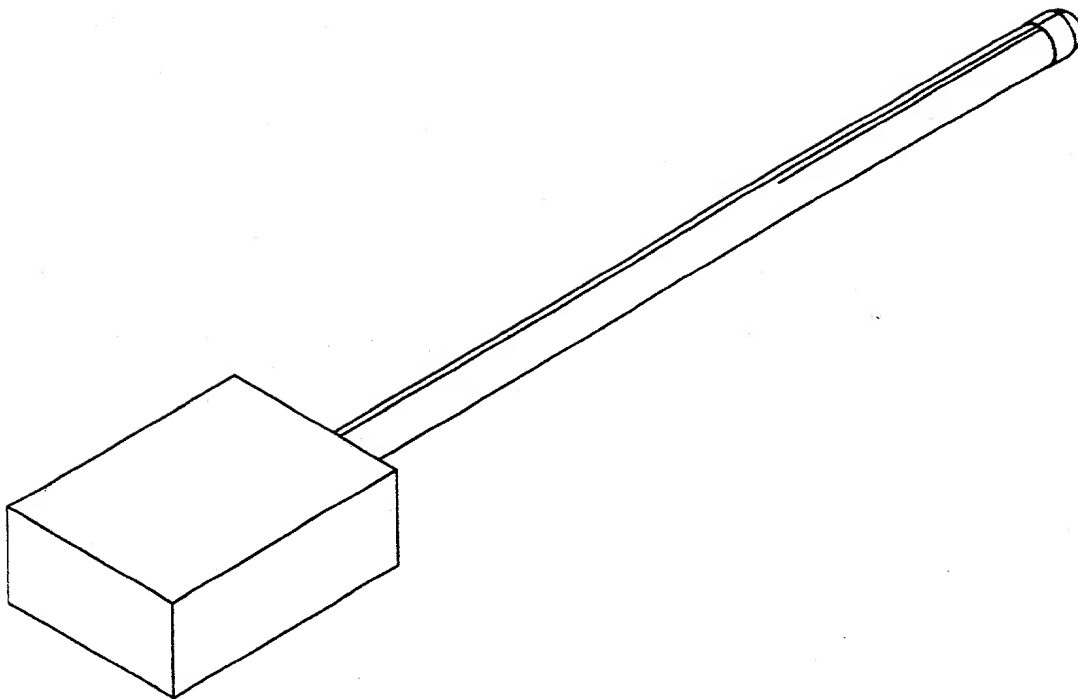


FIG. 24